

Don't be the same, be better!



Electric Vehicle Charging Solutions



Higher reliability with lower cost!



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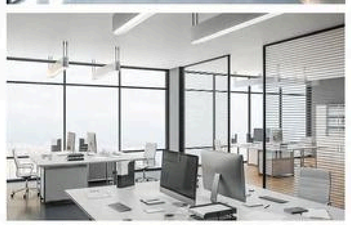
60kW @1500V /1000V Liquid Cooling DC-DC Charging Power Module

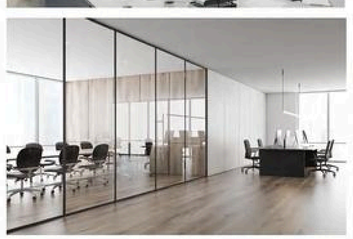
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Company Profile





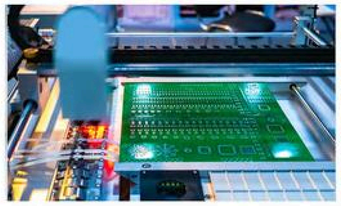


Shijiazhuang Maxwell Technology Co., Ltd. is a state-level high-tech enterprise and one of the leading enterprises of new energy and energy internet supported by Shijiazhuang municipal government. We focus on the research and development, production and sales of power electronic products, positioning services for mid-to-high-end DC power supply system manufacturers, based on owning independent intellectual property rights, insisting on independent research and development and technological innovation in the course of operation, providing customers with equipment supporting and its services realize the growth of corporate value and customer value together.

More than ten years since its establishment, the company has been working hard to build a high-quality R&D team, actively serving as an explorer and practitioner of technological innovation in the power supply industry, and has obtained multiple national invention patent technologies and software copyrights. At the same time, we insist on manufacturing high-quality products in line with national standards and European and American standards, forging professional marketing service elites.At present, the company's products are widely used in automotive, electric power, railway, metallurgy, communications and other fields, and its performance cases are spread all over the country and around the world.

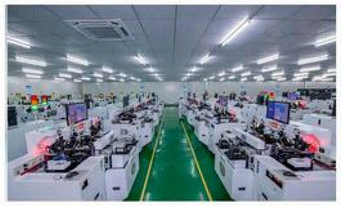
In order to devote itself to the market development of new energy electric vehicles, the company has started the development of automotive DC charging modules since 2011. There are currently more than 20 models of products of 15kW, 20kW, **30kW, 40kW, 50kW** and **60kW** series. Currently the typical projects include the charging station of Shijiazhuang Convention and Exhibition Center, the charging station of Shijiazhuang International Airport, the bus charging station of Nanjiao Passenger Terminal, the large charging center of Hebei Normal University and other projects, which enjoy a high reputation in the field of new energy vehicle charging stations.

COMPANY ADVANTAGES



Technical Advantages

Over 10 years professional experience for power supply products design and manufacturing. All-process manufacturing system for design, production to test, burn-in and analysis.
High efficiency process flow managed by ULTIMUS BPM platform.
Self-own 100,000 square meter production facilities and EMC darkroom.



Production Capacity

Complete production process equipment, annual production capacity 8 million units.
High quality production line, first Pass Yield rate over 98%.
3 hours quick response production.



Supply-chain Management

ERP system applied.
Production order and lead-time plan managed with MPS/MRP.
Material and production process controlled by advanced E-code Management System (EMS).
Tracing available in all-process flow.
Modernized storage and logistics management.

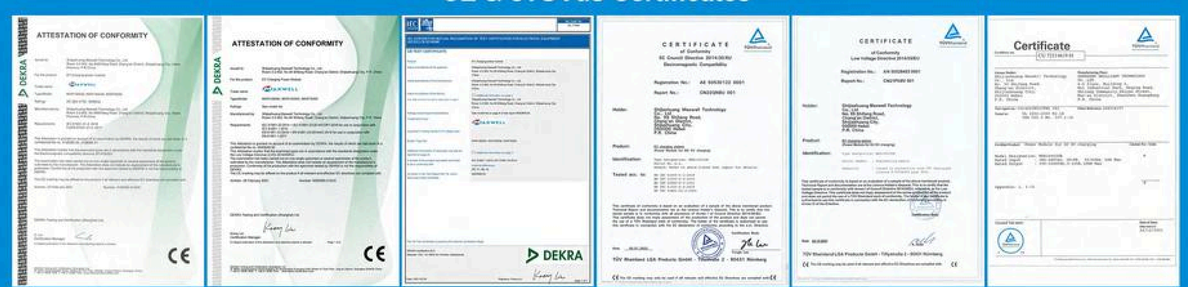


R&D Ability

Experienced R&D team with international experts;
Professional design reason ability analysis and performance evaluation;
Analysis and improvement suggestions on MTBF,FMEA,EMC,EMI,HOT-P and etc.

QUALITY SYSTEM

CE & cTUVus Certificates



ISO9001, ISO14001, OHSAS18001 and TS16949 quality system, 3C, CE, TUV, cTUVus, UL, KC, RoHS certified

MXR150060B-850

60KW@1500V EV DC Charging Power Module



EXCELLENT ADVANTAGES

➢ Ultra-high
Full-load operating temperature **60℃**

MXR150060B-850 can output full power at 60°C, Effectively ensuring the charging speed in high temperature environment.

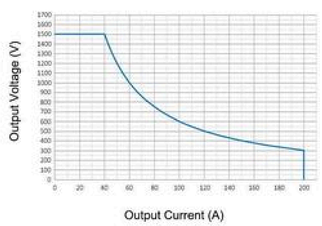
➢ Ultra-wide
Input voltage range **600Vac-850Vac**

MXR150060B-850's ultra-wide input voltage range and ultra-high output power are suitable for charging various electric vehicles and greatly improve the charging speed.

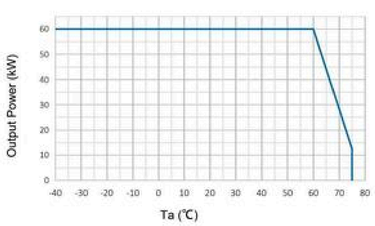
MAIN FEATURES

- ✧ Ultra-wide output voltage range, 0Vdc-1500Vdc, suitable for a wide range of EVs. Ultra-high output power, in 300V-1500V output voltage, 60kW constant power output;
- ✧ Wide operating temperature range at -40℃ ~ +75℃;
- ✧ Peak efficiency is higher than 97%. High efficiency in the whole working range, and more power saving;
- ✧ Ultra-low noise, enhances user charging experience;
- ✧ The current in the low-voltage area does not shrink, and the charging speed is faster;
- ✧ The module is built with residual voltage relief circuit to reduce system cost and improve system reliability.

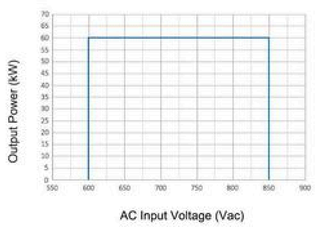
Output Voltage vs Output Current



Temperature Derating Curve



AC Input Limit Power Curve



Model	MXR150060B-850
Basic Indicators	
Dimensions	125mm (H) × 440mm (W) × 450mm (D)
Weight	< 29kg
Rated Power	60kW
Cooling Method	Forced air cooling
Communication Method	CAN
Peak Efficiency	> 97%
Power Factor	≥ 0.99 (Load ≥ 50%)
ITHD	≤ 3% (Load ≥ 50%)
Noise	≤ 60dB (In silent mode)
Parallel Quantity	≤ 60 pcs
Protection Level	IP20
Input Side	
Voltage Range	600Vac ~ 850Vac, 3 Phase + PE
Current Range	< 61A
Output Side	
Voltage Range	0Vdc ~ 1500Vdc (Continuously adjustable)
Current Range	0A ~ 200A (Continuously adjustable)
Voltage Stabilization Accuracy	≤ ± 0.3%
Current Stabilization Accuracy	≤ ± 0.3%
Ripple Factor (Peak to Peak)	≤ 0.3%
Environmental Conditions	
Operating Temperature	-40℃ ~ +75℃ (Full power below 60℃, derated to 30% at 75℃)
Altitude	5000m
EMC	
EMI	Meet Class B Standard Reference: IEC 61000-6-3
EMS	Meet Class B Standard Reference: IEC 61000-6-1
Product Reliability	
MTBF	> 1,000,000 hours

MXR100060B

60KW@1000V EV DC Charging Power Module



EXCELLENT ADVANTAGES

➢ Ultra-high
Full-load operating temperature **55℃**

MXR100060B can output full power at 55°C, effectively ensuring the charging speed in high temperature environment.

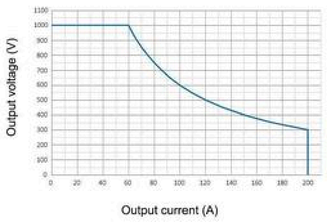
➢ Ultra-wide
Output constant power range **300Vdc-1000Vdc**

MXR100060B's ultra-wide output voltage range and ultra-high output power are suitable for charging various electric vehicles and greatly improve the charging speed.

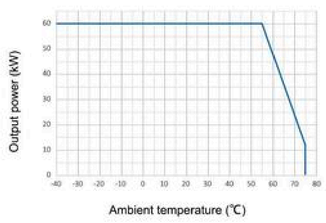
MAIN FEATURES

- ✧ Ultra-wide output voltage range, 0Vdc-1000Vdc, suitable for a wide range of EVs. Ultra-high output power, in 300V-1000V output voltage, 60kW constant power output;
- ✧ Wide operating temperature range at -40℃ ~ +75℃;
- ✧ Full load efficiency is higher than 97%. High efficiency in the whole working range, and more power saving;
- ✧ Ultra-low noise, enhances user charging experience;
- ✧ The current in the low-voltage area does not shrink, and the charging speed is faster;
- ✧ The module is built with residual voltage relief circuit to reduce system cost and improve system reliability.

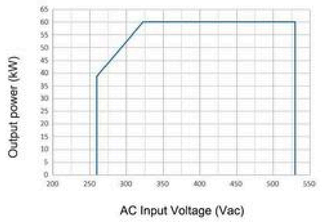
OUTPUT VOLTAGE vs OUTPUT CURRENT



TEMPERATURE DERATING CURVE



AC INPUT POWER LIMIT CURVE



M0del	MXR100060B
Basic Indicators	
Dimensions	125mm (H) × 440mm (W) × 430mm (D)
Weight	< 27kg
Rated Power	60kW
Cooling Method	Forced air cooling
Communication Method	CAN Bus / RS485
Peak Efficiency (Full load)	> 97%
Power Factor	≥ 0.99 (Load ≥ 50%)
Power Density	42W/in³
ITHD	≤ 3% (Load ≥ 50%)
Noise	≤ 55dB (In silent mode)
Overload Capacity	Support 1.3 times overload capacity, the time is not less than 1 minute.
Parallel Quantity	≤ 60 pcs
Protection Level	IP20
Input Side	
Voltage Range	260Vac ~ 530Vac, 3 Phase + PE (Also be compatible for DC Input)
Current Range	0A ~ 120A
Output Side	
Voltage Range	0Vdc ~ 1000Vdc (Continuously adjustable)
Current Range	0A ~ 200A (Continuously adjustable)
Voltage Stabilization Accuracy	≤ ± 0.3%
Current Stabilization Accuracy	≤ ± 0.3%
Ripple Factor (Peak to Peak)	≤ 0.3%
Environmental Conditions	
Operating Temperature	-40℃ ~ +60℃ ~ +75℃ (Full power below 60℃, derated to 30% at 75℃)
Altitude	≤ 5000m (Derating at above 5000m)
EMC	
EMI	Meet Class B Standard Reference: IEC 61000-6-3
EMS	Meet Class B Standard Reference: IEC 61000-6-1
Product Reliability	
MTBF	> 1,000,000 hours

MXR200050B

50KW@2000V EV DC Charging Power Module



EXCELLENT ADVANTAGES

➢ Ultra-high
Full-load operating temperature **50℃**

MXR200050B can output full power at 50˚C. Effectively ensuring the charging speed in high temperature environment.

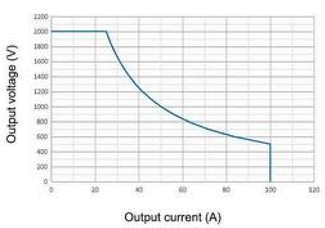
➢ Ultra-wide
Output constant power voltage range
500Vdc-2000Vdc

MXR200050B's ultra-wide output voltage range and ultra-high output power are suitable for charging various electric vehicles and greatly improve the charging speed.

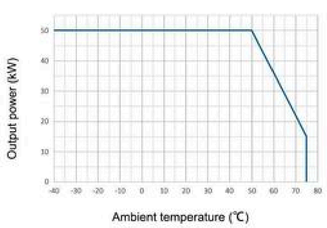
MAIN FEATURES

- ✧ Ultra-wide output voltage range, 0Vdc-2000Vdc, suitable for a wide range of EVs. Ultra-high output power, in 500V-2000V output voltage, 50kW constant power output;
- ✧ Wide operating temperature range at -40℃ ~ +75℃;
- ✧ Full load efficiency is higher than 97%. High efficiency in the whole working range, and more power saving;
- ✧ Ultra-low noise, enhances user charging experience;
- ✧ The current in the low-voltage area does not shrink, and the charging speed is faster;
- ✧ The module is built with residual voltage relief circuit to reduce system cost and improve system reliability.

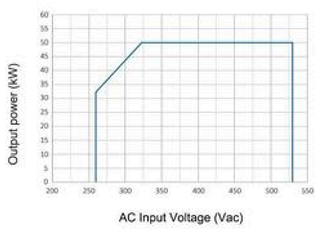
OUTPUT VOLTAGE vs OUTPUT CURRENT



TEMPERATURE DERATING CURVE



AC INPUT POWER LIMIT CURVE



Model	MXR200050B
Basic Indicators	
Dimensions	125mm (H) × 440mm (W) × 430mm (D)
Weight	< 24kg
Rated Power	50kW
Cooling Method	Forced air cooling
Communication Method	CAN Bus / RS485
Peak Efficiency (Full load)	> 97%
Power Factor	≥ 0.99 (Load ≥ 50%)
ITHD	≤ 3% (Load ≥ 50%)
Noise	≤ 55dB (In silent mode)
Parallel Quantity	≤ 60 pcs
Protection Level	IP20
Input Side	
Voltage Range	260Vac ~ 530Vac, 3 Phase + PE (Also be compatible for DC Input)
Current Range	0A ~ 95A
Output Side	
Voltage Range	0Vdc ~ 2000Vdc (Continuously adjustable)
Current Range	0A ~ 100A (Continuously adjustable)
Voltage Stabilization Accuracy	≤ ± 0.3%
Current Stabilization Accuracy	≤ ± 0.5%
Ripple Factor (Peak to Peak)	≤ 0.3%
Environmental Conditions	
Operating Temperature	-40℃ ~ +75℃ (Output derating at above 50℃)
Altitude	≤ 5000m (Derating at above 5000m)
EMC	
EMI	Meet Class B Standard Reference: IEC 61000-6-3
EMS	Meet Class B Standard Reference: IEC 61000-6-1
Product Reliability	
MTBF	> 1,000,000 hours

MXR150050B

50KW@1500V EV DC Charging Power Module



EXCELLENT ADVANTAGES

➢ Ultra-high
Full-load operating temperature **55℃**

MXR150050B can output full power at 55°C, effectively ensuring the charging speed in high temperature environment.

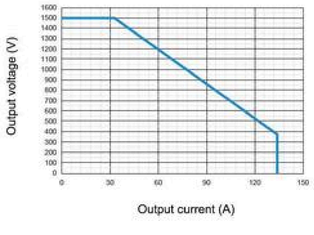
➢ Ultra-wide
Output constant power range **375Vdc-1500Vdc**

MXR150050B's ultra-wide output voltage range and Ultra-high output power are suitable for charging various electric vehicles and greatly improve the charging speed.

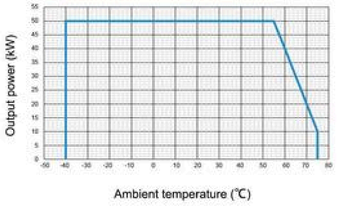
MAIN FEATURES

- ✧ Ultra-wide output voltage range, 0-1500VDC, suitable for a wide range of EVs;
- ✧ Wide operating temperature range at -40℃~+75℃;
- ✧ Full load efficiency is higher than 97%, high efficiency in the whole working range, and more power saving;
- ✧ Ultra-low noise, enhance user charging experience;
- ✧ The current in the low-voltage area does not shrink, and the charging speed is faster;
- ✧ The module is built with residual voltage relief circuit to reduce system cost and improve system reliability.

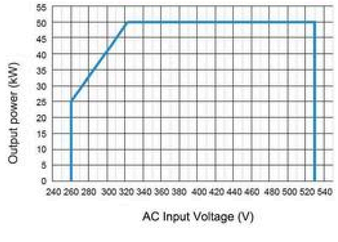
OUTPUT VOLTAGE vs OUTPUT CURRENT



OUTPUT POWER vs TEMPERATURE



OUTPUT POWER vs INPUT VOLTAGE



MAXWELL

MXR150050B

Model	MXR150050B
Basic Indicators	
Dimensions	125mm (H) x 440mm (W) x 380mm (D)
Weight	≤23kg
Cooling Method	Forced air cooling
Protection Level	IP20
Standby Power Consumption	≤13.5W
Noise	≤55dB (In silent mode)
Overload Capacity	Supports 1.3 times overload capacity, time is not less than 1 minute
Peak Efficiency	>97%
Communication	CAN & RS485
Parallel Quantity	≤60 pieces
Indicator Light	Green: Normal operation Yellow: Protection alarm Red: Fault alarm LED digital tube
Input Characteristics	
Input Voltage	260Vac～530Vac, three-phase + PE
Input Current	≤95A
Grid frequency	45Hz～65Hz
Power Factor	≥0.99 (Load ≥50%)
ITHD	≤ 5% (load ratio ≥ 50%)
Output Characteristics	
Rated Power	50kW
Voltage Range	0~ 1500Vdc continuously adjustable
Current Range	0~ 134A continuously adjustable
Voltage Stabilization Accuracy	≤±0.3%
Current Stabilization Accuracy	≤±0.3%
Ripple Factor (Peak to Peak)	≤0.3%
Environmental Conditions	
Operating Temperature	-40°C to +75°C (output derating at above 55°C)
Storage Temperature	-40°C ~ +80°C
Relative Humidity	≤95%RH without condensation
Altitude	≤2000m (Derating above 2000m)
EMC	
EMC	EMI: CLASS B, IEC61000-6-3 EMS: CLASS B, IEC61000-6-1
Product reliability	
MTBF	>1,000,000 hours

MXR100050B-SE

50KW@650VAC/1000VDC EV DC Charging Power Module



EXCELLENT ADVANTAGES

➢ Ultra-high
Full-load operating temperature **55℃**

MXR100050B-SE can output full power at 55°C, effectively ensuring the charging speed in high temperature environment.

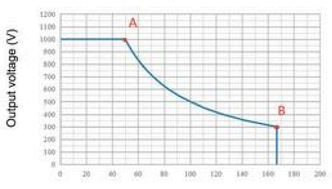
➢ Ultra-wide
Output constant power range **300Vdc-1000Vdc**

MXR100050B-SE's ultra-wide output voltage range and Ultra-high output power are suitable for charging various electric vehicles and greatly improve the charging speed.

MAIN FEATURES

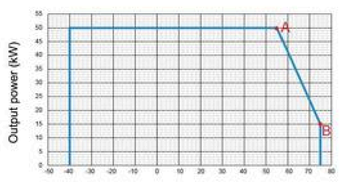
- ✧ Ultra-wide output voltage range, 200-1000VDC, suitable for a wide range of EVs;
- ✧ Wide operating temperature range at -40℃~+75℃;
- ✧ Full load efficiency is higher than 95.5%, high efficiency in the whole working range, and more power saving;
- ✧ Ultra-low noise, enhance user charging experience;
- ✧ The current in the low-voltage area does not shrink, and the charging speed is faster;
- ✧ The module is built with residual voltage relief circuit to reduce system cost and improve system reliability.

Output Voltage VS Output Current



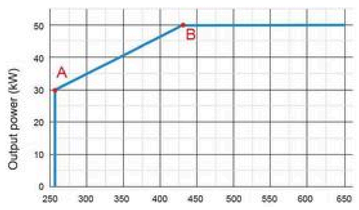
NOTE: POINT A (50A, 1000V), POINT B (167A, 300V).

Output Power VS Output Temperature



NOTE: POINT A (55℃, 50KW), POINT B (75℃, 15KW), AC INPUT IS RATED VOLTAGE.

Output Power VS Input Voltage



NOTE: POINT A (260V, 30KW), B (432V, 50KW), AND THE INPUT POWER LIMIT CURVE ARE ALLSATISFIED WHEN THE AMBIENT TEMPERATURE IS BELOW 55℃.

Model	MXR100050B-SE
Basic Indicators	
Dimensions	125mm (H) x 440mm (W) x 380mm (D)
Weight	≤23kg
Cooling Method	Forced air cooling
Protection Level	IP20
Standby Power Consumption	≤13.5W
Noise	support silent mode setting, provide multiple levels (55dB, 60dB)
Peak Efficiency	>97.5%
Communication	CAN
Parallel Quantity	≤60 pieces
Indicator Light	Green: Normal operation Yellow: Protection alarm Red: Fault alarm LED digital tube
Input Characteristics	
Input Voltage	260Vac~650Vac, three-phase + PE
Input Current	≤70A
Grid frequency	45Hz~65Hz
Power Factor	≥0.99 (Load ≥50%)
ITHD	≤5% (Load ratio ≥50%)
Output Characteristics	
Rated Power	50kW
Voltage Range	0Vdc ~ 1000Vdc continuously adjustable
Current Range	0~ 167A continuously adjustable
Voltage Stabilization Accuracy	≤±0.3%
Current Stabilization Accuracy	≤±0.3%
Ripple Factor (Peak to Peak)	≤0.3%
Environmental Conditions	
Operating Temperature	-40°C ~ +75°C (Output derating at above 55°C)
Storage Temperature	-40°C ~ +75°C
Relative Humidity	5%-95% RH (non-condensing)
Altitude	≤2000m (Derating above 2000m)
EMC	
EMC	EMI: CLASS B, IEC61000-6-3 EMS: CLASS B, IEC61000-6-1
Product Reliability	
MTBF	> 1,000,000 hours

MXR100050B

50KW@1000V EV DC Charging Power Module



EXCELLENT ADVANTAGES

➢ Ultra-high
Full-load operating temperature **55℃**

MXR100050B can output fullpower at 55℃, Effectively ensuring the charging speed in high temperature environment.

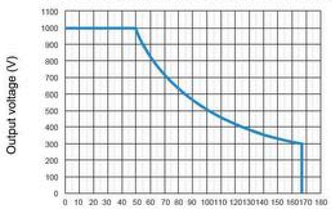
➢ Ultra-wide
Output constant power range **300V-1000V**

MXR100050B's ultra-wide output voltage range and Ultra-high output power are suitable for charging various electric vehicles and greatly improve the charging speed.

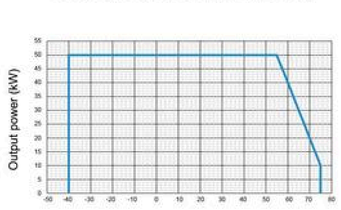
MAIN FEATURES

- ✧ Ultra-wide output voltage range, 200-1000VDC, suitable for a wide range of EVs.
- ✧ Ultra-high output power, in 300V-1000V output voltage, 50KW constant power output.
- ✧ Wide operating temperature range at -40℃~+75℃.
- ✧ Full load efficiency is higher than 95.5%, high efficiency in the whole the working range, and more power saving.
- ✧ Ultra-low noise, enhance user charging experience.
- ✧ The current in the low-voltage area does not shrink, and the charging speed is faster.
- ✧ The module is built with residual pressure relief loop to reduce system cost and improve system reliability.

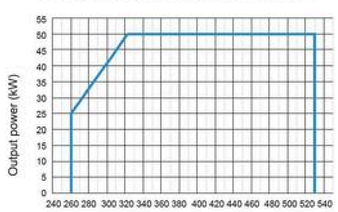
OUTPUT VOLTAGE vs OUTPUT CURRENT



OUTPUT POWER vs TEMPERATURE



OUTPUT POWER vs INPUT VOLTAGE



MAXWELL

MXR100050B

MODEL	MXR100050B
Basic Indicators	
Dimensions	125mm (H) x 440mm (W) x 380mm (D)
Weight	≤23kg
Cooling Method	Forced air cooling
Protection Level	IP20
Standby Power consumption	≤13.5W
Noise	≤55dB (In silent mode)
Full load efficiency	>95.5% (Rated output)
Communication	CAN bus
Parallel Quantity	≤60 pieces
Indicator Light	Green: Normal operation Yellow: Protection alarm Red: Fault alarm LED digital tube
Input Characteristics	
Input Voltage	260Vac~ 530Vac, three-phase + PE
Input Current	≤ 100A
Grid frequency	45Hz~65Hz
Power Factor	≥0.99 (Load ≥50%)
ITHD	≤5% (Load ≥50%)
Output Characteristics	
Output Power	50kW
Voltage Range	0Vdc ~ 1000Vdc
Current Range	0~167A continuously adjustable;
Voltage Stabilization Accuracy	≤±0.5%
Current Stabilization Accuracy	≤±1% (Output current ≥ 20% Max current)
Ripple Factor (Peak to Peak)	<1%
Current Imbalance	<±5% (Output current ≥ 50% Max current)
Environmental Conditions	
Full load working temperature	-40℃~+75℃ (Output derating at above 55℃)
Storage Temperature	-40℃~+80℃
Relative Humidity	≤95%RH without condensation
Altitude	≤2000m (Derating above 2000m)
Safety Regulations and EMC	
Safety	Meet CE Reference standard: IEC61851
EMC	Meet CE (EMI meet CLASSB) Reference standard: IEC61851
Product Reliability	
MTBF	> 1,000,000 hours

MXH100040B

40KW@1000V EV DC Charging Power Module



EXCELLENT ADVANTAGES

➢ Ultra-high
Full-load operating temperature **55℃**

MXH100040B can output full power at 55℃.
Effectively ensuring the charging speed in high temperature environment.

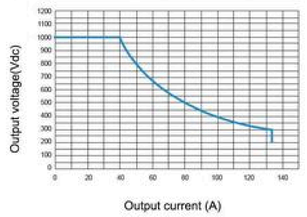
➢ Ultra-wide
Output constant power range **300Vdc-1000Vdc**

MXH100040B's ultra-wide output voltage range and Ultra-high output power are suitable for charging various electric vehicles and greatly improve the charging speed

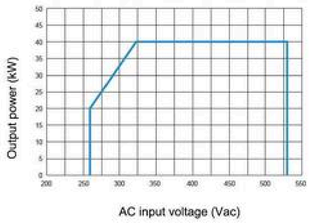
MAIN FEATURES

- ✧ Ultra-wide output voltage range, 200-1000VDC, suitable for a wide range of EVs; Ultra-high output power, in 300V-1000V output voltage, 40KW constant power output.
- ✧ Wide operating temperature range at -40℃~+75℃;
- ✧ Full load efficiency is higher than 97%, high efficiency in the whole working range, and more power saving;
- ✧ Ultra-low noise,enhance user charging experience;
- ✧ The current in the low-voltage area does not shrink, and the charging speed is faster;
- ✧ The module is built with residual voltage relief circuit to reduce system cost and improve system reliability.

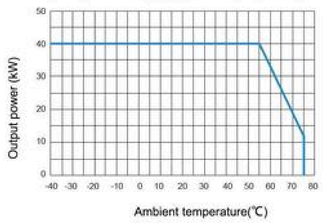
OUTPUT VOLTAGE VS. OUTPUT CURRENT



AC INPUT LIMITED POWER CURVE



TEMPERATURE DERATING CURVE



MAXWELL

MXH100040B

Model	MXH100040B
Basic Indicators	
Dimensions	84mm(H)×300mm(W)×437.5mm(D)
Weight	≤16.5kg
Cooling Method	Forced air cooling
Protection Level	IP20
Efficiency(full load)	>97%
Noise	≤65dB
Communication Method	CAN & RS485
Parallel Quantity	≤60pcs
Indicator Light	Green: normal operation Yellow: alarm Red: fault LED digital tube
AC Input Characteristics	
Voltage Range	260Vac~530Vac Three-phase + PE (compatible with DC input)
Current Range	<76A
Grid Frequency	45Hz~65Hz
Power Factor	≥0.99(load≥50%)
ITHD	≤3%(load ratio≥50%)
DC Output Characteristic	
Rated Power	40kW
Voltage Range	200~1000Vdc (continuously adjustable)
Current Range	0A~134A (continuously adjustable)
Voltage Stabilization Accuracy	≤±0.5%
Current Stabilization Accuracy	≤±1%
Ripple Factor (Peak to Peak)	≤1%
Current Imbalance	≤±3%
Environmental Conditions	
Operating Temperature	-40℃ ~ +55℃ ~ +75℃ (Full power below 55℃, derated to 30% at 75℃)
Storage Temperature	-40℃ ~ +75℃
Relative Humidity	5%-95%RH(non-condensing)
Altitude	≤5000 m (Derating above 5000m)
Safety Regulations and EMC	
Safety	Meets: IEC 60664-1
EMC	EMI : CLASS B Reference standard: IEC 61000-6-3
	EMS: CLASS B Reference standard: IEC 61000-6-1
Product reliability	
MTBF	> 1,000,000 hours

MXH100030B

30KW@1000V EV DC Charging Power Module



EXCELLENT ADVANTAGES

➢ Ultra-high
Full-load operating temperature **55℃**

MXH100030B can output full power at 55°C. Effectively ensuring the charging speed in high temperature environment.

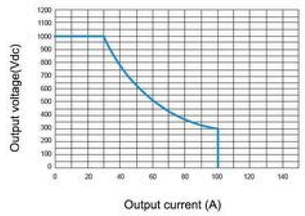
➢ Ultra-wide
Output constant power range **300Vdc-1000Vdc**

MXH100030B's ultra-wide output voltage range and Ultra-high output power are suitable for charging various electric vehicles and greatly improve the charging speed

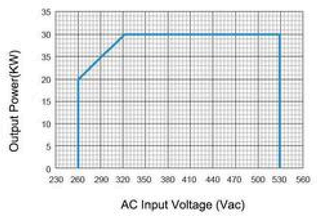
MAIN FEATURES

- ✧ Ultra-wide output voltage range, 0-1000VDC, suitable for a wide range of EVs;Ultra-high output power, in 300V-1000V output voltage, 30KW constant power output.
- ✧ Wide operating temperature range at -30℃~+75℃;
- ✧ Full load efficiency is higher than 97%, high efficiency in the whole working range, and more power saving;
- ✧ Ultra-low noise,enhance user charging experience;
- ✧ The current in the low-voltage area does not shrink, and the charging speed is faster;
- ✧ The module is built with residual voltage relief circuit to reduce system cost and improve system reliability.

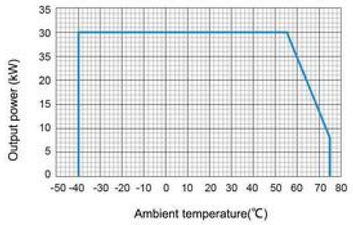
OUTPUT VOLTAGE VS. OUTPUT CURRENT



AC INPUT POWER LIMITING CURVE (T<50 °C)



TEMPERATURE DERATING CURVE



Model	MXH100030B
Basic Indicators	
Dimensions	84mm(H)×300mm(W)×437mm(D)
Weight	<16kg
Cooling Method	Fan cooling
Rated Power	30kW
Efficiency(full load)	>97%
Noise	≤65dB
Communication Method	CAN bus
Parallel Quantity	≤60pcs
Indicator Light	Green: normal operation Yellow: alarm Red: fault LED digital tube
AC Input Characteristics	
Voltage Range	260Vac～530Vac. Three-phase + PE (compatible with DC input)
Current Range	<57A
Power Factor	≥0.99 (load ≥50%)
ITHD	≤3% (load ≥50%)
DC Output Characteristic	
Voltage Range	0~1000Vdc continuously adjustable
Current Range	0A~100A continuously adjustable
Voltage Stabilization accuracy	≤±0.5%
Current Stabilization accuracy	≤±1%
Ripple Factor (Peak to Peak)	≤1%
Current Imbalance	≤±3%
Environmental Conditions	
Operating Temperature	-40°C~+55°C~+75°C （full power below 55°C, derated to 30% at 75°C）
Storage Temperature	-40°C~ +75°C
Relative Humidity	≤95%RH(non-condensing)
Altitude	5000m
MTBF	>1,000,000 hours
EMC	
EMC	EMI : CLASS B Reference standard: IEC 61000-6-3
	EMS: CLASS B Reference standard: IEC 61000-6-1

MXR40050B

50KW@650VAC/400VDC EV DC Charging Power Module



EXCELLENT ADVANTAGES

➢ Ultra-high
Full-load operating temperature **55℃**

MXR40050B can output full power at 55°C, effectively ensuring the charging speed in high temperature environment.

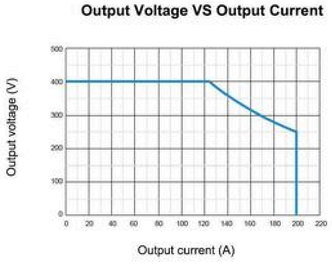
➢ Ultra-wide
Output constant power range **250Vdc-400Vdc**

MXR40050B's ultra-wide output voltage range and Ultra-high output power are suitable for charging various electric vehicles and greatly improve the charging speed.

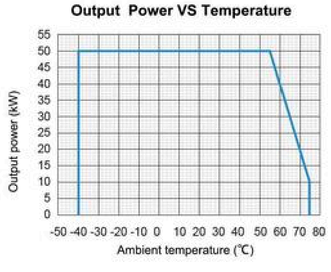
MAIN FEATURES

- ✧ Ultra-wide output voltage range, 0-400VDC, suitable for a wide range of EVs;
- ✧ Wide operating temperature range at -40℃~+75℃;
- ✧ Full load efficiency is higher than 97%, high efficiency in the whole working range, and more power saving;
- ✧ Ultra-low noise, enhance user charging experience;
- ✧ The current in the low-voltage area does not shrink, and the charging speed is faster;
- ✧ The module is built with residual voltage relief circuit to reduce system cost and improve system reliability.

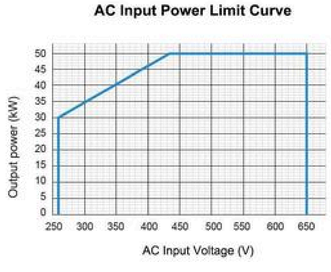
Output Voltage VS Output Current



Output Power VS Temperature



AC Input Power Limit Curve



MAXWELL

MXR40050B

Model	MXR40050B
Basic Indicators	
Dimensions	125mm (H) x 440mm (W) x 380mm (D)
Weight	≤23kg
Cooling Method	Forced air cooling
Protection Level	IP20
Standby Power Consumption	≤13.5W
Noise	≤55dB (In silent mode)
Overload Capacity	Supports 1.3 times overload capacity, time is not less than 1 minute
Peak Efficiency	>97%
Communication	CAN
Parallel Quantity	≤60 pieces
Indicator Light	Green: Normal operation Yellow: Protection alarm Red: Fault alarm LED digital tube
Input Characteristics	
Input Voltage	260Vac～650Vac, three-phase + PE
Input Current	≤95A
Grid frequency	45Hz～65Hz
Power Factor	≥0.99 (Load ≥50%)
ITHD	≤ 5% (load ratio ≥ 50%)
Output Characteristics	
Rated Power	50kW
Voltage Range	0～400Vdc continuously adjustable
Current Range	0~200A continuously adjustable
Voltage Stabilization Accuracy	≤±0.3%
Current Stabilization Accuracy	≤±0.3%
Ripple Factor (Peak to Peak)	≤0.3%
Environmental Conditions	
Full Load Working Temperature	-40℃ ~ +55℃ ~ +75℃(Full power below 55℃, derated to 30% at 75℃)
Storage Temperature	-40℃ ~ +80℃
Relative Humidity	≤95%RH without condensation
Altitude	≤2000m （Output derating at above 2000m.）
EMC	
EMC	EMI: CLASS B, IEC61000-6-3 EMS: CLASS B, IEC61000-6-1
Product reliability	
MTBF	>1,000,000 hours

MXR25050B

50KW@200VDC/250A EV DC Charging Power Module



EXCELLENT ADVANTAGES

➢ Ultra-high
Full-load operating temperature **55℃**

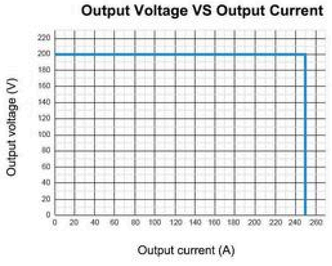
MXR25050B can output full power at 55℃.
Effectively ensuring the charging speed in high temperature environment.

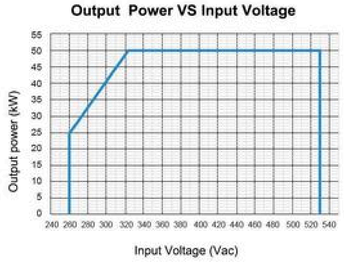
➢ Constant Current Module

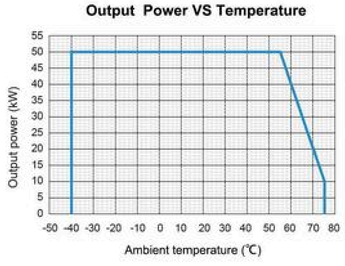
MXR25050B can output constant current 250A in all the output voltage range 0-200Vdc.

MAIN FEATURES

- ✧ Wide operating temperature range at -40℃~+75℃
- ✧ Full load efficiency is higher than 96.5%, high efficiency vin the whole working range, and more power saving;
- ✧ Ultra-low noise,enhance user charging experience;
- ✧ The current in the low-voltage area does not shrink, and the charging speed is faster;
- ✧ The module is built with residual voltage relief circuit to reduce system cost and improve system reliability.







MAXWELL

MXR25050B

Model	MXR25050B
Basic Indicators	
Dimensions	125mm(H)×440mm(W)×380mm(D)
Weight	<23kg
Cooling Method	Fan cooling
Rated Power	50kW
Peak Efficiency	>96.5%
Noise	≤55dB (in silent mode)
Communication Method	CAN & RS485
Parallel Quantity	≤60pcs
Indicator	Green: normal operation Yellow: alarm Red: fault LED digital tube
AC Input Characteristics	
Voltage Range	260Vac～530Vac. Three-phase + PE (compatible with DC input)
Current Range	<95A
Power Factor	≥0.99 (load ≥50%)
ITHD	≤3% (load ≥50%)
DC Output Characteristic	
Voltage Range	0~200Vdc continuously adjustable
Current Range	0A~250A continuously adjustable
Voltage Stabilization accuracy	≤±0.3%
Current Stabilization accuracy	≤±0.3 %
Ripple Factor (Peak to Peak)	≤0.3%
Environmental Conditions	
Operating Temperature	-40℃~ +55℃~ +75℃ （Full power below 55℃, derating to 30% at 75℃）
Altitude	≤5000m (Derating above 5000m)
MTBF	>1,000,000 hours
Other	
EMI	Meet GJB151B-2013
Vibration	Meet GJB1032-90

MXR100200B

20KW@120V Low Voltage & High Current Charging Module



EXCELLENT ADVANTAGES

➢ Ultra-wide
Output voltage range **20V-120V**

The ultra-wide output voltage range of MXR100200B can meet the charging requirements of low voltage.

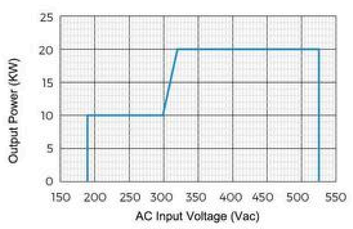
➢ Super charging current **200A**

The super charging current of MXR100200B can greatly reduce the charging time.

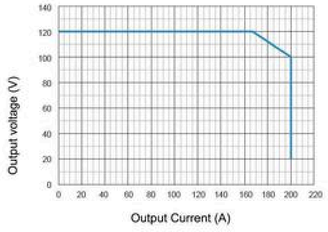
MAIN FEATURES

- ✧ Wide output voltage range, 20~120VDC, suitable for low-speed EVs.
- ✧ Wide operating temperature range at full power, -40℃~+50℃;
- ✧ Full load efficiency is higher than 93.5%, high efficiency in the whole working range, and more energy saving;
- ✧ Ultra-low standby power consumption, the whole series of products are controlled within 8W;
- ✧ The current in the low-voltage area does not shrink, and the charging speed is faster;
- ✧ The module is built with residual pressure relief loop to reduce system cost and improve system reliability;

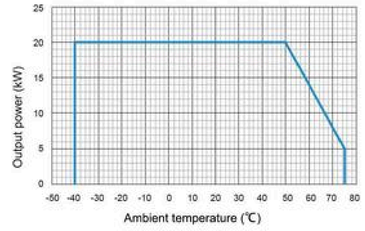
AC Input Power Limit Curve



Output Voltage VS Output Current Curve



Temperature Limit Power Curve



MAXWELL

MXR100200B

MODEL	MXR100200B
Basic Indicators	
Dimensions	84mm(H)x218mm(W)x459mm(D)
Weight	≤ 12kg
Efficiency (full load)	>93.5%
Standby Power Consumption	8.5W±0.5W
Cooling Method	Fan cooling
Communication Mode	CAN bus
Parallel Quantity	≤ 60
Indicator Light	Green: normal operation Yellow: alarm Red: failure
AC Input Characteristics	
Input Voltage	190Vac ~530Vac, three phase + PE
Input Current	< 40A
Input Frequency	45Hz ~65Hz
Power Factor	≥ 0.99 @50%～100% full load output power
ITHD	≤ 5% @50%～100% full load output power
DC Output Characteristics	
Voltage Range	20Vdc - 120Vdc
Current Range	0A ~200A(continuously adjustable)
Rated Current	200A
Voltage Stabilization Accuracy	≤ ±0.5%
Current Stabilization Accuracy	≤ ±1% (Output load 20%～100% rated range)
Current Imbalance	≤ ±5%
Ripple Factor (Peak to Peak)	≤ 1%
Environmental Conditions	
Operating Temperature	-40℃~ + 75℃, Output derating above 50℃
Storage Temperature	-40℃ ~ + 75℃
Relative Humidity	≤ 95% RH, Non-condensing
Altitude	≤1000m (Derating above 1000m. The operating temperature decreases by 1℃ for each additional 100m)
MTBF	>500,000 hours
Alarm and Protection	
Input OverVoltage/Undervoltage Protection	Automatic recovery after shutdown
Output Overvoltage Protection	Manual recovery after shutdown
Over Current And Short Circuit Protection	Manual recovery after shutdown
Over Temperature Protection	Automatic recovery after shutdown
Certification	
cTUVus	Test specification: UL 1564: 2015 R8.17; CSA C22.2 No. 107.2

MXR100200

20KW@100V Low Voltage & High Current Charging Power Module



EXCELLENT ADVANTAGES

➢ Ultra-wide
Output voltage range **40V-100V**

The ultra-wide output voltage range of MXR100200 can meet the charging requirements of low voltage.

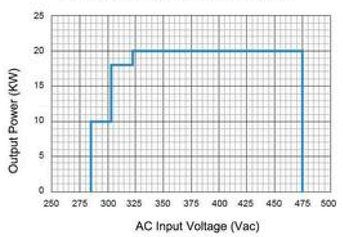
➢ Super charging current **200A**

The super charging current of MXR100200 can greatly reduce the charging time.

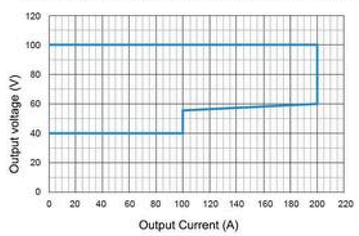
MAIN FEATURES

- ✧ Wide output voltage range, 40~100VDC, suitable for low-speed EVs.
- ✧ Wide operating temperature range at full power, -40℃~+50℃;
- ✧ Full load efficiency is higher than 95%, high efficiency in the whole working range, and more energy saving;
- ✧ Ultra-low standby power consumption, the whole series of products are controlled within 8W;
- ✧ The current in the low-voltage area does not shrink, and the charging speed is faster;
- ✧ The module is built with residual pressure relief loop to reduce system cost and improve system reliability;

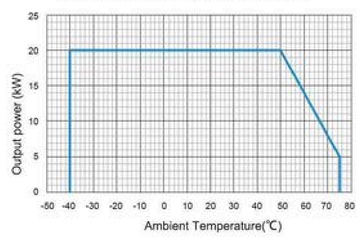
AC Input Power Limit Curve



Output Voltage VS Output Current Curve



Temperature Limit Power Curve



MAXWELL

MXR100200

MODEL	MXR100200
Basic Indicators	
Dimensions	84mm(H)×226mm(W)×395mm(D)
Weight	≤11kg
Efficiency	>95%
Standby Consumption	8.5W ± 0.5W
Cooling Method	Forced air cooling
Communication	CAN bus
Parallel Quantity	≤60
Indicator Light	Green: Normal operation Yellow: Protection alarm Red: Fault alarm
Input Characteristics	
Input Voltage	285Vac~475Vac,three-phase + PE
Input Current	<40A
Grid Frequency	45Hz~65Hz
Power Factor	≥0.99 @50%~100% full load output power
ITHD	≤5 % @50%~100% full load output power
Output Characteristics	
Voltage Range	40Vdc~100Vdc
Current Range	0A~200A
Rated Current	200A
Voltage Stabilization Accuracy	≤±0.5 %
Current Stabilization Accuracy	≤±1% (Output load 20%~100% rated range)
Current Imbalance	≤±5%
Ripple Factor (Peak to Peak)	≤1%
Environmental Conditions	
Full Load Working Temperature	-40℃~+75 ℃ (Output derating at above 50℃)
Storage Temperature	-40℃~+75℃
Relative Humidity	≤95%RH, no condensation
Altitude	≤1000m (Derating above 1000m. The operating temperature decreases by 1℃ for each additional 100m)
MTBF	>500,000 hours
Other	
Safety Requirements	Meet the general technical specifications for off-board DC chargers for electric vehicles, NB/T 33001-2018, NB/T 33008.1-2018

MXR200150

20KW@200V Low Voltage & High Current Charging Module



EXCELLENT ADVANTAGES

➢ Ultra-wide
Output voltage range **60V-200V**

The ultra-wide output voltage range of MXR200150 can meet the charging requirements of low voltage.

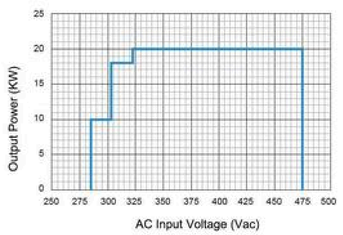
➢ Super charging current **150A**

The super charging current of MXR200150 can greatly reduce the charging time.

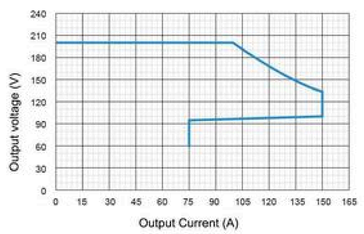
MAIN FEATURES

- ✧ Wide output voltage range, 60~200VDC, suitable for low-speed EVs.
- ✧ Wide operating temperature range at full power, -40℃~+50℃;
- ✧ Full load efficiency is higher than 95%, high efficiency in the whole working range, and more energy saving;
- ✧ Ultra-low standby power consumption, the whole series of products are controlled within 8W;
- ✧ The current in the low-voltage area does not shrink, and the charging speed is faster;
- ✧ The module is built with residual pressure relief loop to reduce system cost and improve system reliability;

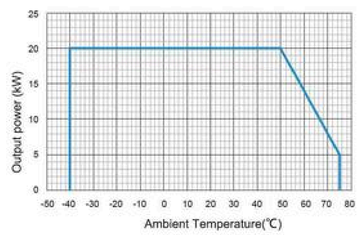
AC Input Power Limit Curve



Output Voltage VS Output Current Curve



Temperature Limit Power Curve



MAXWELL

MXR200150

MODEL	MXR200150
Basic Indicators	
Dimensions	84mm(H)×226mm(W)×395mm(D)
Weight	≤ 11kg
Efficiency (full load)	>95%
Standby power consumption	< 8W
Cooling method	Fan cooling
Communication mode	CAN bus
Parallel Quantity	≤ 60
Indicator light	Green: normal operation Yellow: alarm Red: failure
AC Input Characteristics	
Input voltage	285Vac~475Vac, three phase+PE
Input current	< 40A
Input frequency	45Hz ~65Hz
Power factor	≥ 0.99
ITHD	≤ 5%
DC Output Characteristics	
Output power	20kW@ output voltage ≥ 134Vdc
Voltage range	60Vdc ~ 200Vdc, default value: 100Vdc
Current range	0A ~150A
Voltage Stabilization Accuracy	≤ ±0.5%
Current Stabilization Accuracy	≤ ±1%
Current sharing imbalance for modules in parallel	≤ ±5%
Ripple factor(peak to peak)	≤ 1%
Environmental Conditions	
Operating temperature	-40℃~ + 75℃, Output derating above 50℃
Storage temperature	-40℃ ~ + 75℃
Relative humidity	≤ 95% RH, Non-condensing
Altitude	≤1000m (Derating above 1000m. The operating temperature decreases by 1℃ for each additional 100m)
MTBF	>500,000 hours
Alarm and Protection	
Input overvoltage/undervoltage protection	Automatic recovery after shutdown
Output overvoltage protection	Manual recovery after shutdown
Over current and short circuit protection	Manual recovery after shutdown
Over temperature protection	Automatic recovery after shutdown
Certification	
Reliability and safety	Compliant with CE

MXR150050B-DC

50KW@1500V EV DC-DC Charging Power Module



EXCELLENT ADVANTAGES

➢ Ultra-high
Full-load operating temperature **50℃**

MXR150050B-DC can output full power at 50℃, effectively ensuring the charging speed in high temperature environment.

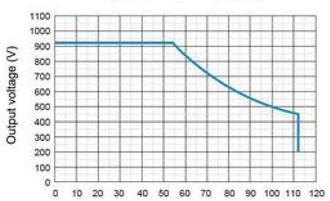
➢ Ultra-wide
Output constant power range **450Vdc-920Vdc**

MXR150050B-DC's ultra-wide output voltage range and Ultra-high output power are suitable for charging various electric vehicles and greatly improve the charging speed.

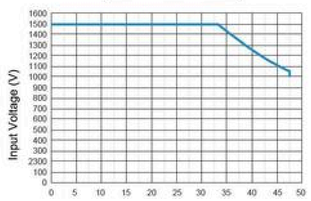
MAIN FEATURES

- ✧ Ultra-wide output voltage range, 200~920VDC, suitable for a wide range of EVs
- ✧ Wide operating temperature range at -40℃~+75℃;
- ✧ The efficiency is higher than 98.5%,high efficiency in the whole working range,and more power saving.
- ✧ Ultra-low noise,enhance user charging experience;
- ✧ The current in the low-voltage area does not shrink, and the charging speed is faster;
- ✧ The module is built with residual voltage relief circuit to reduce system cost and improve system reliability.

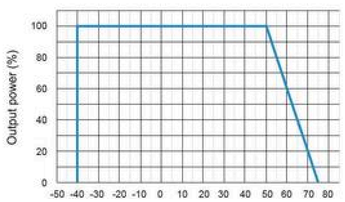
Output Voltage VS Output Current (1080V < Vin < 1500V)



Input Voltage VS Input Current (450V < Vout <920V)



Temperature Derating Curve



MXR150050B-DC

Model	MXR150050B-DC	
Basic Indicators		
Dimensions	87mm(H)×345mm(W)×460mm(D)	
Weight	<20kg	
Power	50kW	
Cooling Method	Air cooling	
Efficiency(full load)	>98.5%	
Isolated Method	High Frequency Isolation	
Communication Method	CAN / RS485	
Hardware Stop Driver	With 12V enable signal (low level to operate, high level to shut Down)	
Parallel Quantity	≤60pcs	
Protection Level	IP20	
Indicator	Green: normal operation Red: fault	Yellow: alarm LED digital tube
Input Side		
Voltage Range	1080Vdc~1500Vdc	
Max Current	47.5A	
Output Side		
Voltage Range	200Vdc~920Vdc	
Current Range	0A~112A	
Voltage Stabilization Accuracy	≤±0.5%	
Current Stabilization Accuracy	≤±1%（output load 20%~100% rated range）	
Ripple Factor (Peak to Peak)	≤1%	
Current Imbalance	≤5%	
Environmental Conditions		
Operating Temperature	-40℃ ~ +75℃, output derating at above 50℃	
Altitude	≤2000 m (Derating above 2000m)	
Other		
Certification	CE (Reference standard: IEC61851)	

MXR150050B-DC2

50KW@1500V EV DC-DC Charging Power Module



EXCELLENT ADVANTAGES

➢ Ultra-high
Full-load operating temperature **50℃**

MXR150050B-DC2 can output full power at 50℃, effectively ensuring the charging speed in high temperature environment.

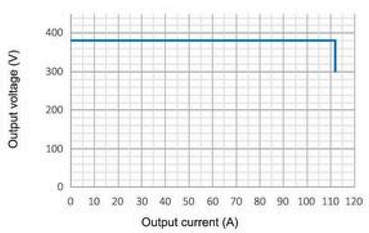
➢ Constant Current
Constant Current **112A**

MXR150050B-DC2 is customized by constant current of 112A for specific output voltage of 300Vdc ~ 380Vdc.

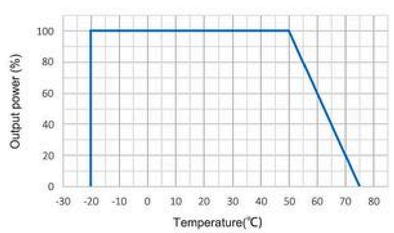
MAIN FEATURES

- ✧ Wide operating temperature range at -20 ~ +75℃;
- ✧ The efficiency is higher than 98%,high efficiency in the whole working range,and more power saving.
- ✧ Ultra-low noise,enhance user charging experience;
- ✧ The current in the low-voltage area does not shrink, and the charging speed is faster;
- ✧ The module is built with residual voltage relief circuit to reduce system cost and improve system reliability.

(800V < Vin < 1500V)



Temperature Derating Curve



Model	MXR150050B-DC2
Basic Indicators	
Dimensions	87mm (H) × 345mm (W) × 460mm (D)
Weight	< 17.5kg
Power	42.5kW
Cooling Method	Forced air cooling
Peak Efficiency (Full load)	> 98%
Isolated Method	High Frequency Isolation
Communication Method	CAN Bus
Hardware Stop Driver	With 12V enable signal (Low level to operate, high level to shut down.)
Parallel Quantity	≤ 60 pcs
Protection Level	IP20
Indicator Light	Green: Normal operation Yellow: Alarm Red: Fault LED digital tube
Input Side	
Voltage Range	800Vdc ~ 1500Vdc
Max Current	55A
Output Side	
Voltage Range	300Vdc ~ 380Vdc
Current Range	0A ~ 112A
Voltage Stabilization Accuracy	≤ ± 0.5%
Current Stabilization Accuracy	≤ ± 1% (Output load 20% ~ 100% of rated range)
Ripple Factor (Peak to Peak)	≤ 1%
Current Imbalance	≤ 5%
Environmental Conditions	
Operating Temperature	-20℃ ~ +75℃ (Output derating at above 50℃)
Altitude	≤ 2000m (Derating at above 2000m)

MXR100050B-DC

50KW@1000V EV DC-DC Charging Power Module



EXCELLENT ADVANTAGES

➢ Ultra-high
Full-load operating temperature **50℃**

MXR100050B-DC can output full power at 50℃, effectively ensuring the charging speed in high temperature environment.

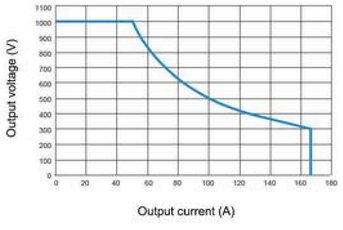
➢ Ultra-wide
Output constant power range **300Vdc-1000Vdc**

MXR100050B-DC's ultra-wide output voltage range and Ultra-high output power are suitable for charging various electric vehicles and greatly improve the charging speed.

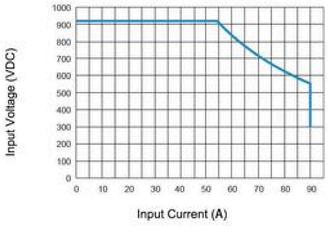
MAIN FEATURES

- ✧ Ultra-wide output voltage range, 200~1000VDC, suitable for a wide range of EVs
- ✧ Wide operating temperature range at -40℃~+75℃;
- ✧ The efficiency is higher than 98.5%,high efficiency in the whole working range,and more power saving.
- ✧ Ultra-low noise,enhance user charging experience;
- ✧ The current in the low-voltage area does not shrink, and the charging speed is faster;
- ✧ The module is built with residual voltage relief circuit to reduce system cost and improve system reliability.

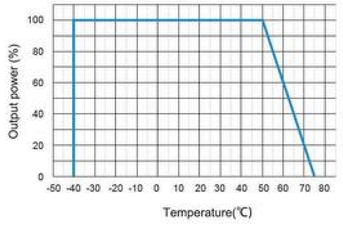
Output Voltage VS Output Current (530V < Vin < 920V)



Input Voltage VS Input Current (300V < Vout <1000V)



Temperature Derating Curve



MAXWELL

Model	MXR100050B-DC
Basic Indicators	
Dimensions	87mm(H)×345mm(W)×460mm(D)
Weight	<17kg
Power	50kW
Cooling Method	Air cooling
Efficiency(full load)	>98.5%
Isolated Method	High Frequency Isolation
Communication Method	CAN bus
Parallel Quantity	<60pcs
Indicator	Green: normal operation Yellow: alarm Red: fault LED digital tube
DC Input Characteristics	
Voltage Range	300Vdc~920Vdc
Max Current	90A
DC Output Characteristic	
Voltage Range	200Vdc~1000Vdc
Current Range	0A ~ 167A
Voltage Stabilization Accuracy	≤±0.5%
Current Stabilization Accuracy	≤1%(Output load 20%~100%Rated Range)
Ripple Factor (Peak to Peak)	≤1%
Current Imbalance	≤5%
Environmental Conditions	
Operating Temperature	-40°C ~ +75°C (output derating at above 50°C)
Altitude	≤2000 m (Derating above 2000m)
Other	
Certification	CE (Reference standard: IEC61851)

MXR100040-DC

40KW@1000V DC-DC Charging Module



EXCELLENT ADVANTAGES

➢ Ultra-high

Full-load operating temperature **50℃**

MXR100040-DC can output full power at 50℃. Effectively ensuring the charging speed in high temperature environment.

➢ Ultra-wide

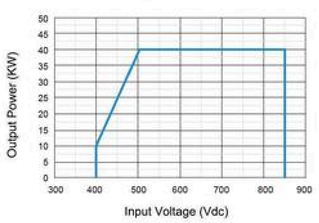
Input constant power range **400Vdc ~ 850Vdc**

MXR100040-DC's ultra-wide output voltage range and Ultra-high output power are suitable for charging various electric vehicles and greatly improve the charging speed.

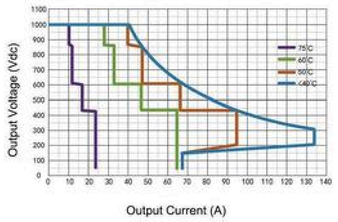
MAIN FEATURES

- ✧ Ultra-wide output voltage range, 50-1000VDC, suitable for a wide range of EVs;
- ✧ Wide operating temperature range at -40℃~+75℃;
- ✧ Full load efficiency is higher than 97.5%, high efficiency in the whole working range, and more power saving;
- ✧ Ultra-low noise, enhance user charging experience;
- ✧ The current in the low-voltage area does not shrink, and the charging speed is faster;
- ✧ The module is built with residual voltage relief circuit to reduce system cost and improve system reliability.

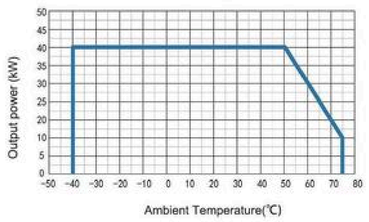
Input Voltage Limit Power Curve



Output Voltage VS Output Current



Temperature Limiting Power Curve



MODEL	MXR100040-DC
Basic Indicators	
Dimensions	85mm(H)×360mm(W)×459mm(D)
Weight	≤20kg
Efficiency(full load)	>97.5%
Cooling Mode	Fan cooling
Communication Method	CAN bus
Parallel Quantity	≤60pcs
Indicator	Green: normal operation Yellow: alarm Red: fault LED digital tube
Input Characteristics	
Input Voltage	200Vdc ~ 850Vdc
Input Current	≤90A
Constant Power Input Voltage	400Vdc ~ 850Vdc
Output Characteristic	
Rated Power	40kW
Voltage Range	50Vdc~1000Vdc
Current Range	0A~133.3 A (continuously regulated)
Rated Current	40A
Voltage Stabilization Accuracy	≤±0.5%(100V-1000V, 0~20MHz)
Current Stabilization Accuracy	≤ ± 1% (Output current 20% ~ 100% rated current)
Current Imbalance	≤±3%
Ripple Factor (Peak to Peak)	≤1%
Environmental Specifications	
Operating Temperatue	-40˚C ~+75˚C , output derating above 50˚C
Storage Temperature	-40˚C ~+75˚C
Relative Humidity	≤95%RH, Non-condensing
Altitude	≤2000m (Derating above 2000m. The operating temperature decreases by 1˚C for each additional 100m)
MTBF	>500,000 hours
ROHS	R6

MXC1500100B

100KW@1500V Bidirectional DC-DC Charging Power Module



EXCELLENT ADVANTAGES

- Ultra-High Bus Side Voltage **1500V**
- Ultra-wide Battery Side Voltage Range **800Vdc-850Vdc**
- Ultra-High Protection: Gluing Process
- Ultra-High Efficiency **> 98.5%**

Model	MXC1500100B
Basic Indicators	
Dimension	87mm (H)×345mm (W)×500mm (D)
Weight	<20kg
Rated Power	100kW
Cooling Method	Forced Air Cooling
Peak Efficiency	>98.5%
Power Density	110W/IN3
Isolation Method	High Frequency Isolation
Communication Method	CANBus
Parallel Quantity	≤60 Pcs
Bus Side	
Voltage Range	1040Vdc ~ 1500Vdc
Maximum Current	66.7A
Voltage Stabilization Accuracy	≤±0.5%
Current Stabilization Accuracy	≤±1% (Output Load 20% ~ 100% Rated Range)
Current Imbalance	≤5%
Battery Side	
Voltage Range	800Vdc ~ 850Vdc
Max Current	125A
Voltage Stabilization Accuracy	≤±0.5%
Current Stabilization Accuracy	≤±1% (Output Load 20% ~ 100% Rated Range)
Current Imbalance	≤1%
Ripple Peak-to-Peak	≤5%
Environmental Conditions	
Operating Temperature	-20℃ ~+75℃ , Above 50℃ will be derated.
Altitude	≤2000m, Above 2000m will be derated.

MXC1250100B

100KW@1250V Bidirectional DC-DC Charging Power Module



EXCELLENT ADVANTAGES

- Ultra-High Bus Side Voltage **1250V**
- Ultra-wide Battery Side Voltage Range **740Vdc-860Vdc**
- Ultra-High Prote ction: Gluing Process
- Ultra-High Efficiency **>98.5%**

Model	MXC1250100B
Basic Indicators	
Dimension	87mm (H)×345mm (W)×500mm (D)
Weight	<20kg
Rated Power	100kW
Cooling Method	Forced Air Cooling
Peak Efficiency	>98.5%
Power Density	110W/IN3
Isolation Method	High Frequency Isolation
Communication Method	CANBus
Parallel Quantity	≤60 Pcs
Bus Side	
Voltage Range	300Vdc ~ 1250Vdc
Maximum Current	80A
Voltage Stabilization Accuracy	≤±0.5%
Current Stabilization Accuracy	≤±1% (Output Load 20% - 100% Rated Range)
Current Imbalance	≤5%
Battery Side	
Voltage Range	740Vdc ~ 860Vdc (Constant power range 800Vdc-860Vdc)
Max Current	125A
Voltage Stabilization Accuracy	≤±0.5%
Current Stabilization Accuracy	≤±1% (Output Load 20% - 100% Rated Range)
Current Imbalance	≤1%
Ripple Peak-to-Peak	≤5%
Environmental Conditions	
Operating Temperature	-20℃ ~+75℃ , Above 50℃ will be derated.
Altitude	≤2000m, Above 2000m will be derated.

MXC950100B

100KW@950V Bidirectional DC-DC Charging Power Module



EXCELLENT ADVANTAGES

- Ultra-High Bus Side Voltage **950V**
- Ultra-wide Battery Side Voltage Range **740Vdc-860Vdc**
- Ultra-High Protection: Gluing Process
- Ultra-High Efficiency **>98.5%**

Model	MXC950100B
Basic Indicators	
Dimension	87mm (H)×345mm (W)×500mm (D)
Weight	<20kg
Rated Power	100kW
Cooling Method	Forced Air Cooling
Peak Efficiency	>98.5%
Power Density	110W/IN3
Isolation Method	High Frequency Isolation
Communication Method	CANBus
Parallel Quantity	≤60 Pcs
Bus Side	
Voltage Range	300Vdc~950Vdc (Constant power range 833Vdc-950Vdc)
Maximum Current	120A
Voltage Stabilization Accuracy	≤±0.5%
Current Stabilization Accuracy	≤±1% (Output Load 20% - 100% Rated Range)
Current Imbalance	≤5%
Battery Side	
Voltage Range	740Vdc ~ 860Vdc (Constant power range 800Vdc-860Vdc)
Max Current	125A
Voltage Stabilization Accuracy	≤±0.5%
Current Stabilization Accuracy	≤±1% (Output Load 20% - 100% Rated Range)
Current Imbalance	≤1%
Ripple Peak-to-Peak	≤5%
Environmental Conditions	
Operating Temperature	-20℃ ~+75℃ , Above 50℃ will be derated.
Altitude	≤2000m, Above 2000m will be derated.

MXC150050B-H

50KW@1500V Bidirectional DC-DC Charging Power Module



EXCELLENT ADVANTAGES

- Ultra-high Bus Side Voltage **1500V**
- Ultra-wide Battery Side Voltage Range **300Vdc-1500Vdc**
- Ultra-high Protection: Gluing Process
- Ultra-High Efficiency **>98.5%**

MODEL	MXC150050B-H
Basic Indicators	
Dimension	345mm(W)×460mm(D)×87mm(H)
Weight	<17.5kg
Rated Power	50kW
Efficiency	>98.5%
Isolated Method	High Frequency Isolated
Cooling Method	Air Cooling
Communication	CAN Bus
Parallel Quantity	<60
Bus Side	
Voltage Range	300VDC ~ 1500VDC
Stabilized Voltage Precision	≤±0.5%
Stabilized Current Precision	≤±1% (Output Load 20% - 100%Rated Range)
Current Imbalance	≤5%
Battery Side	
Voltage Range	300VDC ~ 1500VDC
Stabilized Voltage Precision	≤±0.5%
Stabilized Current Precision	≤±1% (Output Load 20% - 100%Rated Range)
Ripple Peak Value	≤1%
Current Imbalance	≤5%
Environment Condition	
Operating Temperature	- 20℃~ + 75℃, Above 50℃ will be derated.
Altitude	≤2000m, Above 2000m will be derated.

MXC150050B

50KW@1500V Bidirectional DC-DC Charging Power Module



EXCELLENT ADVANTAGES

➢ Ultra-high
Full-load operating temperature **50℃**

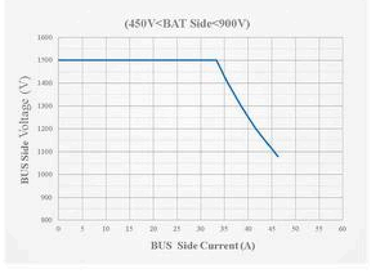
MXC150050B can output full power at 50℃, effectively ensuring the charging speed in high temperature environment.

➢ Ultra-wide
Output constant power range **500Vdc-900Vdc**

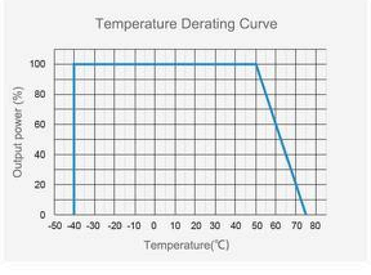
MXC150050B's ultra-wide output voltage range and Ultra-high output power are suitable for charging various electric vehicles and greatly improve the charging speed.

MAIN FEATURES

- ✧ Ultra-wide output voltage range, 200~900VDC, suitable for a wide range of EVs
- ✧ Wide operating temperature range at -40℃~+75℃;
- ✧ The efficiency is higher than 99%,high efficiency in the whole working range,and more power saving.
- ✧ Ultra-low noise,enhance user charging experience;
- ✧ The current in the low-voltage area does not shrink, and the charging speed is faster;
- ✧ The module is built with residual voltage relief circuit to reduce system cost and improve system reliability.







MAXWELL

MXC150050B

Model	MXC150050B
Basic Indicators	
Dimensions	87mm(H)×345mm(W)×460mm(D)
Weight	<20kg
Rated Power	50kW
Cooling Method	Fan cooling
Efficiency(full load)	>99%
Isolation Method	High Frequency Isolation
Communication Method	CAN Communication
Parallel Quantity	<60pcs
Indicator	Green: normal operation Yellow: alarm Red: fault LED digital tube
Bus Side	
Voltage Range	1080Vdc~1500Vdc
Max Current	47.5A
Voltage Stabilization Accuracy	≤±0.5%
Current Stabilization Accuracy	≤±1%(Output loading 20%~100% rated range)
Current Imbalance	≤5%
Battery Side	
Voltage Range	200Vdc~900Vdc
Max Current	112A
Voltage Stabilization Accuracy	≤±0.5%
Current Stabilization Accuracy	≤±1%(Output loading 20%~100% rated range)
Current Imbalance	≤5%
Ripple Factor (Peak to Peak)	≤1%
Environmental Conditions	
Operating Temperature	-40°C ~ +75°C (output derating at above 50°C)
Altitude	≤2000m, output derating above 2000m

MXC100050B

50KW@1000V Bidirectional DC-DC Charging Power Module



EXCELLENT ADVANTAGES

➢ Ultra-high
Full-load operating temperature **55℃**

MXC100050B can output full power at 55℃, effectively ensuring the charging speed in high temperature environment.

➢ Ultra-wide
Output constant power range **300Vdc-1000Vdc**

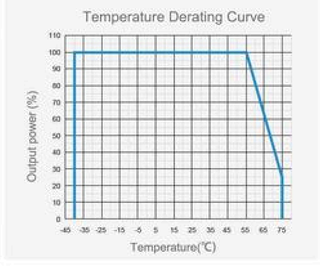
MXC100050B's ultra-wide output voltage range and Ultra-high output power are suitable for charging various electric vehicles and greatly improve the charging speed.

MAIN FEATURES

- ✧ Ultra-wide output voltage range, 200~1000VDC, suitable for a wide range of EVs
- ✧ Wide operating temperature range at -40℃~+75℃;
- ✧ The efficiency is higher than 98.5%,high efficiency in the whole working range,and more power saving.
- ✧ Ultra-low noise,enhance user charging experience;
- ✧ The current in the low-voltage area does not shrink, and the charging speed is faster;
- ✧ The module is built with residual voltage relief circuit to reduce system cost and improve system reliability.







MAXWELL

MXC100050B

Model	MXC100050B
Basic Indicators	
Dimensions	87mm(H)×345mm(W)×460mm(D)
Weight	<17.5kg
Rated Power	50kW
Cooling Method	Fan cooling
Efficiency(full load)	>98.5%
Isolation Method	High Frequency Isolation
Communication Method	CAN Communication
Parallel Quantity	≤60pcs
Bus Side	
Input Voltage	300Vdc~920Vdc
Max Current	90A
Voltage Stabilization Accuracy	≤±0.5%
Current Stabilization Accuracy	≤±1%(Output loading 20%~100% rated range)
Ripple Factor (Peak to Peak)	<1%
Current Imbalance	<±5%
Battery Side	
Voltage Range	200Vdc~1000Vdc
Max Current	167A
Voltage Stabilization Accuracy	≤±0.5%
Current Stabilization Accuracy	≤±1%(Output loading 20%~100% rated range)
Ripple Factor (Peak to Peak)	≤1%
Current Imbalance	≤±5%
Environmental Conditions	
Operating Temperature	-40°C ~ +75°C (output derating at above 50°C)
Altitude	≤ 2000m, output derating above 2000m

MXC95050B

20 KW Bidirectional DC-DC Power Module



EXCELLENT ADVANTAGES

➢ Ultra-high
Full-load operating temperature **55℃**

MXC95050B can output fullpower at 55℃, effectively Ensuring the charging speed in high temperature environment.

➢ Ultra-wide
Input power range **200Vdc-950Vdc**

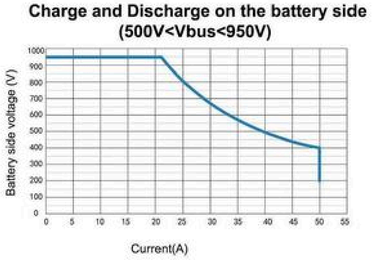
Ultra-wide DC input voltage range of MXC95050B Can be applied to different voltage levels of battery packs to charge electric vehicles.

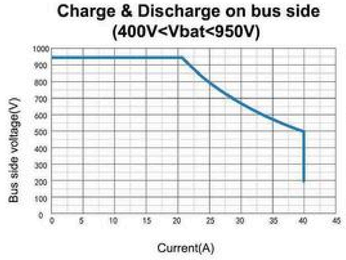
Output voltage range **200Vdc-950Vdc**

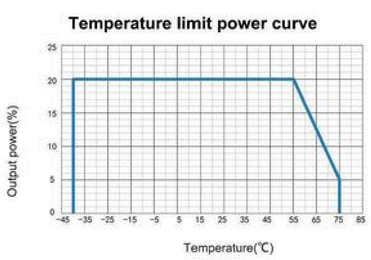
The ultra-wide output voltage range of MXC95050B can be applied to various electric vehicle charging.

MAIN FEATURES

- Suitable for new integrated solutions for optical stroage and charging.
- Wide intput voltage range, 200-950VDC.
- Wide output voltage range, 200-950Vdc, suitable for a wide range of EVs.
- Wide operating temperature range at -40℃~+75℃.
- Full load efficiency is higher than 98.5%, high efficiency
- Throughout the working range, and more power saving.
- Ultra-low noise, enhance user charging experience.
- The current in the low-voltage area does not shrink, and the charging speed is faster.
- The module is built with residual voltage relief circuit to reduce system cost and improve system reliability.







MAXWELL

MXC95050B

MODEL	MXC95050B
Basic Indicators	
Dimensions	85mm(H)×226mm(W)×376mm(D)
Weight	≤9.5kg
Efficiency(full load)	>98.5%
Cooling Mode	Forced air cooling
Communication Bus Protocol	CAN Bus
Parallel Quantity	≤60 pcs
Indicator	Green: normal operation Yellow: protection alarm Red: fault
DC Bus Side	
Voltage Range	200Vdc~950Vdc
Current Range	0A~40A
Voltage Stabilization Accuracy	≤±0.5%
Current Stabilization Accuracy	≤±1%(output current 20%~100% rated current)
Ripple Factor (Peak to Peak)	≤1%
Current Imbalance	≤±5%
Battery Side	
Voltage Range	200Vdc~950Vdc
Current Range	0A~50A
Voltage Stabilization Accuracy	≤±0.5%
Current Stabilization Accuracy	≤±1%(output current 20%~100% rated current)
Ripple Factor (Peak to Peak)	≤1%
Current Imbalance	≤±5%
Environmental Specifications	
Operating Temperature	-40℃ ~+75℃ , output derating at above 55℃
Storage Temperature	-40℃ ~+75℃
Relative Humidity	≤95% RH, non-condensing
Altitude	≤2000m (Derating above 2000m. The operating temperature decreases by 1℃ for each additional 100m when above 1000m)
MTBF	>500,000 hours
ROHS	R6

MXB100022

22KW@1000V Bidirectional AC-DC Charging Power Module



EXCELLENT ADVANTAGES

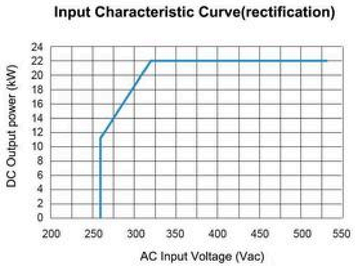
➢ Ultra-high
Full-load operating temperature **55℃**
MXB100022 can output full power at 55℃, effectively ensuring the charging speed in high temperature environment.

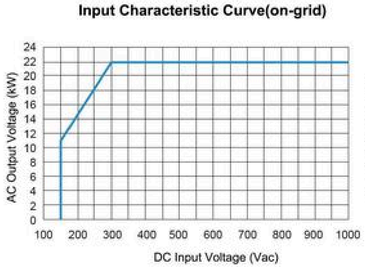
➢ Ultra-wide
On-grid/Rectified Mode: Supports **260Vac-530Vac**
input voltage and 150Vdc~1000Vdc output voltage range.

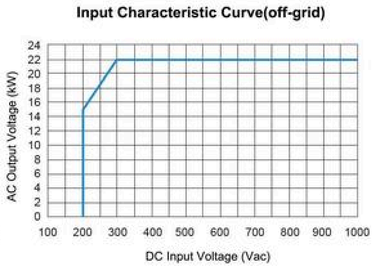
➢ Off-grid/Rectified Mode: Supports **380Vdc**
input voltage and 200Vdc~1000Vdc output voltage range.making it compatible with various power systems.

MAIN FEATURES

- ✧ Suitable for new integrated solutions for optical storage and charging
- ✧ Wide operating temperature range at -40℃~+75℃ .
- ✧ Full load efficiency is higher than 95.5%,high efficiency
- ✧ Throughout the working range,and more power saving.
- ✧ Ultra-low noise,enhance user charging experience
- ✧ The current in the low-voltage area does not shrink,and the charging speed is faster
- ✧ The module is built with residual voltage relief circuit to reduce system cost and improve system reliability.







MAXWELL

MXB100022

Model	MXB100022
Basic Indicators	
Dimensions	85mm(H)×300mm(W)×395mm(D)
Weight	≤14kg
Efficiency(full load)	>95.5%
Cooling Method	Fan cooling
Communication Method	CAN bus
Protection Level	IP20
Indicator Light	Green: Normal operation Yellow: Protection alarm Red: Fault alarm LED digital tube
AC Side(Rectified/on-gird)	
Input Voltage	260Vac~530Vac , 3P+PE
Rated Voltage	380Vac/480Vac
Rated Current	33A
Grid Frequency	45Hz~65Hz, adjustable
Rated Frequency	50Hz/60Hz
Power Factor(Rectified)	≥0.97 at 20% to 50% output power, nominal input voltage and frequency
	≥0.99 at 50% to100% output power, nominal input voltage and frequency
THD	≤5% at 50% to 100% full-load output power
AC Side(off-grid)	
Input Voltage	380Vac, 3P+N+PE
Rated Voltage	380Vac,output voltage non-adjustable
Rated Current	33A
Rated Frequency	50Hz, non-adjustable
THD	<3% @ no load and rated resistive load (balanced load)
Output Voltage Phase Angle	<3° @ no load and rated resistive load (balanced load)
Voltage Stabilization Accuracy	<5% @ no load and rated resistive load (balanced load)
Output Voltage Imbalance	<2% @steady state;<4% @transient state@no load and rated resistive load(balanced load)
Parallel Quantity	≤8pcs
DC Side	
Voltage Range	150Vdc~1000Vdc for rectified/on-gird； 200Vdc~1000Vdc for off-grid
Current Range	0~73.5A for rectified；2~78A for inverted (current limit adjustable)
Rated Current	22A @1000V
Voltage Stabilization Accuracy	<±0.5%
Current Stabilization Accuracy	≤±1%(output load in 20%~100%)
Load Regulation Rate	≤±0.5%
Current Imbalance	<5%
Environmental Conditions	
Operating Temperature	-40℃~+75℃ (output derating at above 55℃)
Storage Temperature	-40℃~+75℃
Humidity	95%RH (non-condensing)
Altitude	≤2000m (Derating above 2000m.)
MTBF	>500,000 hours
ROHS	R6

MXR150060BL

60KW@1500V High Protective Liquid Cooling EV DC Charging Power Module



EXCELLENT ADVANTAGES

➢ Ultra-high
Full-load operating temperature **50℃**

MXR150060BL can output full power at 50℃. Effectively ensuring the charging speed in high temperature environment.

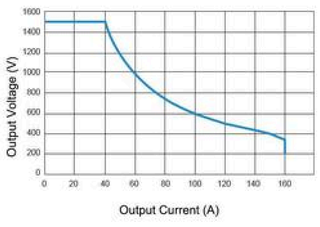
➢ Ultra-wide
Output constant power range **375Vdc-1500Vdc**

MXR150060BL's ultra-wide output voltage range and Ultra-high output power are suitable for charging various electric vehicles and greatly improve the charging speed.

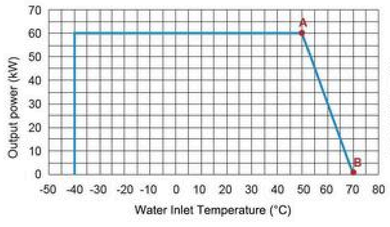
MAIN FEATURES

- ✧ Ultra-wide output voltage range, 200-1500VDC, suitable for a wide range of EVs;Ultra-high output power,in 375V-1500V output voltage, 60KW constant power output.
- ✧ Wide operating temperature range at -40℃~+70℃;
- ✧ Full load efficiency is higher than 97%, high efficiency in the whole working range, and more power saving;
- ✧ Ultra-low noise,enhance user charging experience;
- ✧ The current in the low-voltage area does not shrink, and the charging speed is faster;
- ✧ The module is built with residual voltage relief circuit to reduce system cost and improve system reliability.

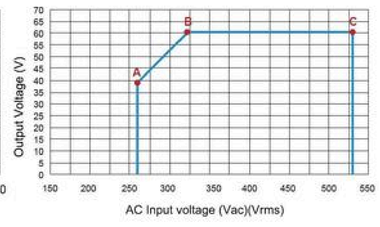
Output Voltage Vs Output Current Curve



Temperature Derating Curve



AC Input limit power curve



MXR150060BL

Model	MXR150060BL
Basic Indicators	
Dimensions	132mm(H)×410mm(W)×500mm(D)
Weight	<48kg
Rated Power	60kW
Communication Method	CAN
Parallel Quantity	≤60pcs(customization is acceptable)
Efficiency	>97%(Rated output)
Power Factor	>0.99(load ≥50%)
ITHD	≤5%(load ≥50%)
AC Input Characteristics	
Input Voltage	260Vac~530Vac , three-phase+PE
Input Current	0~115A
DC Output Characteristic	
Voltage Range	200~1500Vdc (continuously adjustable)
Current Range	0A～160A (continuously adjustable)
Cooling System	
Cooling Method	Liquid cooled
Coolant	Deionized water, water plus ethylene glycol
Inlet temperature	<70°C
Liquid Flow	10L/min
Others	
Voltage Stabilization Accuracy	≤±1%
Current Stabilization Accuracy	≤±0.5%
Ripple Peak	≤1%
Operating Temperature	-40°C~+70°C,output derating at above 50°C
Operating Temperature	≤2000m,output derating above 2000m

MXR100060BL

60KW@1000V High Protective Liquid Cooling EV DC Charging Power Module



EXCELLENT ADVANTAGES

➢ Ultra-high
Full-load operating temperature **50℃**

MXR100060BL can output full power at 50°C. Effectively ensuring the charging speed in high temperature environment.

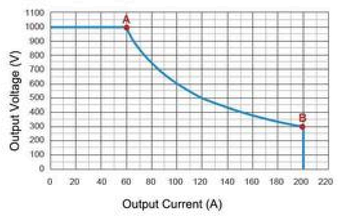
➢ Ultra-wide
Output constant power range **300Vdc-1000Vdc**

MXR100060BL's ultra-wide output voltage range and ultra-high output power are suitable for charging various electric vehicles and greatly improve the charging speed.

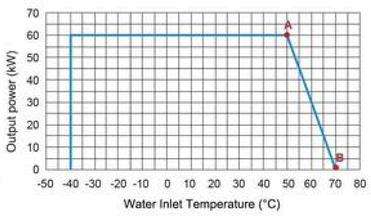
MAIN FEATURES

- ✧ Ultra-wide output voltage range, 200-1000VDC, suitable for a wide range of EVs;
- ✧ Ultra-high output power,in 300V-1000V output voltage, 60KW constant power output.
- ✧ Wide operating temperature range at -40℃~+70℃;
- ✧ Full load efficiency is higher than 96.5%, high efficiency in the whole working range, and more power saving;
- ✧ Ultra-low noise,enhance user charging experience;
- ✧ The current in the low-voltage area does not shrink, and the charging speed is faster;
- ✧ The module is built with residual voltage relief circuit to reduce system cost and improve system reliability.

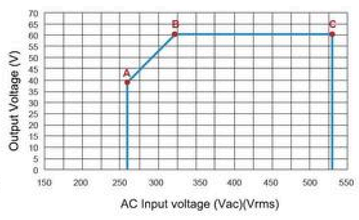
Output Voltage VS Output Current



Temperature Derating Curve



AC Input limit power curve



MXR100060BL

Model	MXR100060BL
Basic Indicators	
Dimensions	132mm(H) × 410mm(W) × 500mm(D)
Weight	<48kg
Rated Power	60kW
Communication Method	CAN
Parallel Quantity	≤60pcs (customization is acceptable)
Efficiency	>96.5% (Rated output)
ITHD	≤5% (load ≥50%)
Standby Power Consumption	<12W
AC Input Characteristics	
Input Voltage	260Vac~530Vac , three-phase+PE
Input Current	0A~115A
Power Factor	>0.99 (load ≥50%)
Current Harmonics	<5% (load ≥50%)
DC Output Characteristic	
Voltage Range	200~1000Vdc (continuously adjustable)
Current Range	0A～200A (continuously adjustable)
Voltage Stabilization Accuracy	<±1%
Current Stabilization Accuracy	<±0.5%
Ripple Factor	<1%
Cooling System	
Liquid Flow	>10L/min
Water Pressure Drop	<50kPa @10LPM
Maximum Inlet Pressure	250kPa
Coolant	Deionized water, water plus ethylene glycol
Inlet Temperature	-40℃~ +70℃ (Derating at above 50℃)
Environmental Conditions	
Altitude	≤2000m (Derating above 2000m.)
Working Environment	Temperature: -40~70°C Humidity: <95%
Storage Environment	Temperature: -40~70°C Humidity: <95%
Others	
EMC	Meets IEC61000-6-2,IEC61000-6-4
Safety	Meets IEC60664-1
Certification	
Dielectric Strength	Input Output: 4500Vdc/<10mA/1MIN Input Output Ground: 4500Vdc/ <10mA /1MIN Input /Output /communication : 4500Vdc/<10mA/1MIN
Insulation Resistance	>10MΩ

MXR6060BL

60KW@60V High Protective Liquid Cooling EV DC Charging Power Module



EXCELLENT ADVANTAGES

➢ Ultra-High Power Factor

Equipped with a built-in APF module,achieving a power factor greater than **0.99**.

➢ Ultra-High Efficiency

SiC components combined with a digital optimization algorithm for significant energy savings.

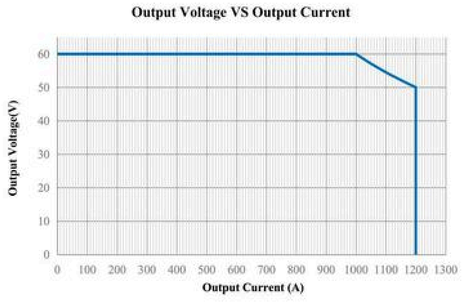
➢ Ultra-High Power Density

Switching frequency in the hundreds of kHz range, greatly reducing product size.

➢ Ultra-Strong Output Capability

Adjustable output voltage: **0-60V**
Adjustable output current: **0-1200A**

MXR6060BL's ultra-wide output current range and ultra-high output power are suitable for charging various electric vehicles and greatly improve the charging speed.



MXR6060BL

Model	MXR6060BL
Basic Indicators	
Dimensions	125mm (H) × 440mm (W) × 450mm (D)
Weight	< 38kg
Rated Power	60kW
Cooling Method	Liquid cooling
Communication Method	CAN/RS485
Parallel Quantity	≤60 pcs
Peak Efficiency	95%
Input Side	
Voltage Range	270Vac ~ 480Vac, 3P + PE
Current Range	<105Arms, 45Hz ~ 65Hz
Power factor	>0.99(Loading≥50%)
Current harmonics	<5%(loading≥50%)
Output Side	
Voltage Range	0 ~ 60Vdc
Current Range	0 ~ 1200A
Voltage Stabilization Accuracy	< ± 1%
Current Stabilization Accuracy	< ± 1%
Voltage Ripple	2V
Cooling System	
Liquid Flow	≥10L/min
Water Pressure Drop	<40kPa @10LPM
Maximum Inlet Pressure	500kPa
Coolant	Deionized water, purified water
Inlet temperature	10℃ ~ 35℃
Others	
Operating Temperature	0 ~ 50℃
Storage Temperature	0 ~ 50℃
Humidity	< 95%
Altitude	2000m
Dielectric Strength	Input/Output: 3500Vdc/<10mA/1MIN Input/Output/Ground: 3500Vdc/<10mA/1MIN Input/Output/Communication: 3500Vdc/<10mA/1MIN

MXR100040L

40KW@1000V High Protective Liquid Cooling EV DC Charging Power Module



EXCELLENT ADVANTAGES

➢ Ultra-high
Full-load operating temperature **60℃**

MXR100040L can output full power at 60°C. Effectively ensuring the charging speed in high temperature environment.

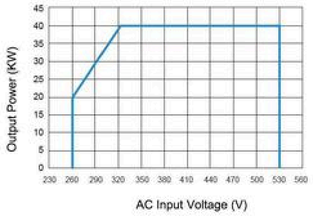
➢ Ultra-wide
Output constant power range **300Vdc-1000Vdc**

MXR100040L's ultra-wide output voltage range and Ultra-high output power are suitable for charging various electric vehicles and greatly improve the charging speed.

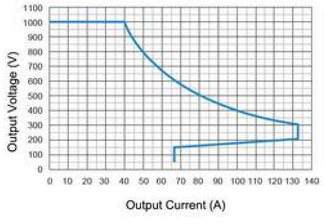
MAIN FEATURES

- ✧ Ultra-wide output voltage range, 50-1000VDC, suitable for a wide range of EVs;
- ✧ Ultra-high output power,in 300V-1000V output voltage, 40KW constant power output.
- ✧ Wide operating temperature range at -40℃~+75℃;
- ✧ Full load efficiency is higher than 95.5%, high efficiency in the whole working range, and more power saving;
- ✧ Ultra-low noise,enhance user charging experience;
- ✧ The current in the low-voltage area does not shrink, and the charging speed is faster;
- ✧ The module is built with residual voltage relief circuit to reduce system cost and improve system reliability.

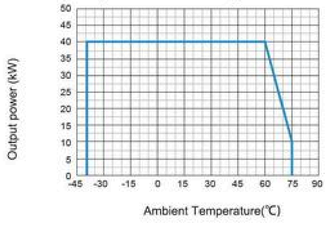
AC Input Power Limiting Curve(T≤55℃)



Output Voltage VS Output Current



Temperature Derating Curve



MAXWELL

MXR100040L

Model	MXR100040L
Basic Indicators	
Dimensions	100mm(H)×340mm(W)×470mm(D)
Weight	≤28kg
Efficiency(full load)	>95.5%
Standby Power Consumption	13W±0.5W
Cooling Mode	Liquid cooling
Communication Method	CAN bus
Parallel Modules Quantity	≤60pcs
Indicator Light	Green: Normal operation Yellow: Protection alarm Red: Fault alarm LED digital tube
Input Characteristics	
Input Voltage	260Vac~530Vac， three phase + PE
Input Current	＜80A
Grid Frequency	45Hz~65Hz
Power Factor	≥0.95(8kw≤output powers20kw); ≥0.98(20kw≤ output powers40kw)
ITHD	≤5%(20kw≤ output powers40kw)
Output Characteristic	
Voltage Range	50Vdc~1000Vdc
Current Range	0A～133.3 A (continuously regulated)
Rated Current	40A
Voltage Stabilization Accuracy	≤±0.5%(Stabilized voltage state, input voltage 323Vac ~ 456Vac, output voltage 200Vdc ~ 1000Vdc, output current 0 ~ rated current value)
Current Stabilization Accuracy	≤±1% (Steady current state, input voltage 323Vac ~ 456Vac, output voltage 200Vdc ~ 1000Vdc, output current 20% rated current ~ 100% rated current value)
Current Imbalance	≤±3%
Ripple Factor (Peak to Peak)	≤1%(voltage stabilization status, input voltage 323Vac~456Vac, output voltage 200Vdc~ 1000Vdc, output current 0~rated current)
Environmental Specifications	
Operating Temperatue	-40°C~+75°C, output derating above 60°C
StorageTemperature	-40°C~+75°C
Relative Humidity	≤95%RH, Non-condensing
Altitude	≤2000m (Derating above 2000m. The operating temperature decreases by 1°C for each additional 100m when above 1000m)
MTBF	>500,000 hours
Cooling System	
Flow	6L/min-10L/min (60%: 40% ethylene glycol aqueous solution)
Temperature	-40°C~+75°C, derating is required for use above 60°C
Coolant	60%: 40% ethylene glycol aqueous solution
Inlet and out let liquid pressure difference	<10kPa@10L/min flow rate
Storage Volume	0.21L (module flow channel liquid storage volume)
EMC	
Emission	CLASS B Reference standard: IEC 61000-6-3
Immunity	CLASS B Reference standard: IEC 61000-6-1
Certification	
CE/TUV	IEC61851-1
TUVus	UL2202

MXR150060BL-DC

60KW@1500V High Protective Liquid Cooling DC DC Charging Power Module



EXCELLENT ADVANTAGES

➢ Ultra-high
Full-load operating temperature **50℃**

MXR150060BL-DC can output full power at 50℃. Effectively ensuring the charging speed in high temperature environment.

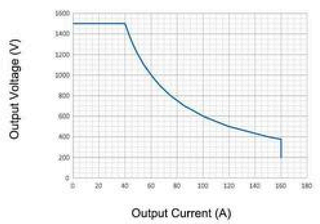
➢ Ultra-wide
Output constant power range **375Vdc-1500Vdc**

MXR150060BL-DC's ultra-wide output voltage range and ultra-high output power are suitable for charging various electric vehicles and greatly improve the charging speed.

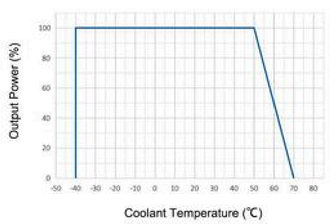
MAIN FEATURES

- ✧ Ultra-wide output voltage range, 200Vdc-1500Vdc, suitable for a wide range of EVs. Ultra-high output power, in 375V-1500V output voltage, 60kW constant power output;
- ✧ Wide operating temperature range at -40℃~+70℃;
- ✧ Full load efficiency is higher than 97%. High efficiency in the whole working range, and more power saving;
- ✧ Ultra-low noise, enhances user charging experience;
- ✧ The current in the low-voltage area does not shrink, and the charging speed is faster;
- ✧ The module is built with residual voltage relief circuit to reduce system cost and improve system reliability.

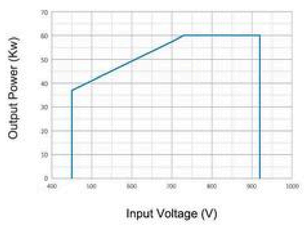
Output Current VS Output Voltage



Temperature Derating Curve



Input Voltage VS Output Power



Model	MXR150060BL-DC
Basic Indicators	
Dimensions	132mm (H) × 410mm (W) × 500mm (D)
Weight	< 48kg
Rated Power	60kW
Cooling Method	Liquid cooling
Communication Method	CAN
Parallel Quantity	≤60 pcs(Special customization available)
Peak Efficiency	> 97%
Input Side	
Input Voltage	450Vdc ~ 920Vdc, DC + PE
Input Current	≤82A
Output Side	
Voltage Range	200~1500Vdc (continuously adjustable)
Current Range	0A ~ 160A (Continuously adjustable)
Cooling System	
Coolant	Deionized water, water-ethylene glycol mixture
Inlet temperature	<70℃
Liquid Flow	10L/min
Others	
Voltage Stabilization Accuracy	≤ ± 0.5%
Current Stabilization Accuracy	≤ ± 1%
Peak Ripple	≤ 1%
Operating Temperature	-40℃~+70℃, output derating at above 50℃
Altitude	≤2000m,output derating above 2000m

MXR100060BL-DC

60KW@1000V High Protective Liquid Cooling DC DC Charging Power Module



EXCELLENT ADVANTAGES

➢ Ultra-high
Full-load operating temperature **50℃**

MXR100060BL-DC can output full power at 50℃. Effectively ensuring the charging speed in high temperature environment.

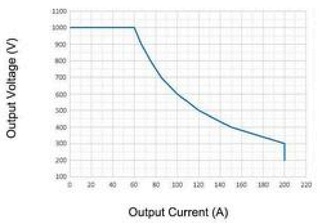
➢ Ultra-wide
Output constant power range **300Vdc-1000Vdc**

MXR100060BL-DC's ultra-wide output voltage range and ultra-high output power are suitable for charging various electric vehicles and greatly improve the charging speed.

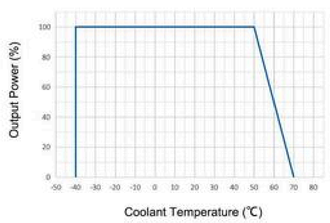
MAIN FEATURES

- ✧ Ultra-wide output voltage range, 200Vdc-1000Vdc, suitable for a wide range of EVs. Ultra-high output power, in 300V-1000V output voltage, 60kW constant power output;
- ✧ Wide operating temperature range at -40℃ ~ +70℃;
- ✧ Full load efficiency is higher than 97%. High efficiency in the whole working range, and more power saving;
- ✧ Ultra-low noise, enhances user charging experience;
- ✧ The current in the low-voltage area does not shrink, and the charging speed is faster;
- ✧ The module is built with residual voltage relief circuit to reduce system cost and improve system reliability.

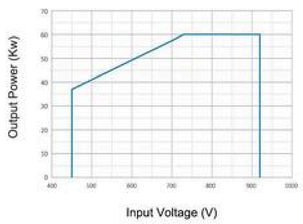
Output Voltage VS Output Current



Temperature Derating Curve



Input Voltage VS Output Power



MAXWELL

Model	MXR100060BL-DC
Basic Indicators	
Dimensions	132mm (H) × 410mm (W) × 500mm (D)
Weight	< 48kg
Rated Power	60kW
Cooling Method	Liquid cooling
Communication Method	CAN
Parallel Quantity	≤60 pcs(Special customization available)
Peak Efficiency	> 97%
Input Side	
Input Voltage	450Vdc ~ 920Vdc, DC + PE
Input Current	≤82A
Output Side	
Voltage Range	200~1000Vdc (continuously adjustable)
Current Range	0A ~ 200A (Continuously adjustable)
Cooling System	
Coolant	Deionized water, water-ethylene glycol mixture
Inlet temperature	<70℃
Liquid Flow	10L/min
Others	
Voltage Stabilization Accuracy	≤ ± 0.5%
Current Stabilization Accuracy	≤ ± 1%
Peak Ripple	≤ 1%
Operating Temperature	-40℃~+70℃, output derating at above 50℃
Altitude	≤2000m,output derating above 2000m