

EV3 Series 40kW Charging Module

EV3102-040K-HR1(CE)

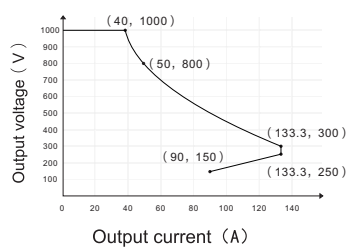


Product Features

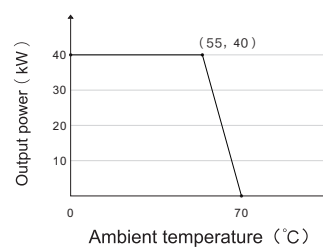
- Output voltage DC 150-1000V to meet the requirements of most electric vehicles
- DC 300-1000V wide voltage constant power output, the whole section is continuous, high reliability
- Module output peak current up to 133.3A, leading the industry
- High efficiency and low loss, peak efficiency high up to 96%, and stand-by power consumption less than 7.5W
- Equipped with leak circuit, which reduces the difficulty of pile design
- Module in-position detection, easy to install and maintain
- Unique three-proof design (moisture-proof, fungiproof and salt fog-proof) and advanced dip coating process, which guarantee long life cycle
- Hot-plug design, easy to maintain
- Module address intelligent recognition

Performance Curve

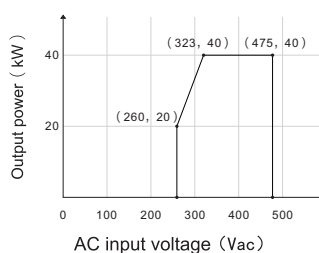
Module output V-A curve



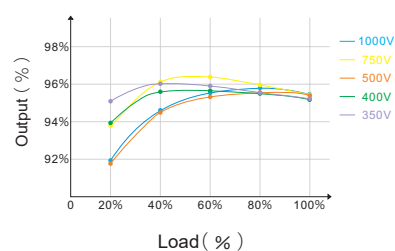
Output power and temperature curve



Output power and AC input voltage curve



Output efficiency curve



Technical Specification

MODEL	EV3102-040K-HR1(CE)
AC INPUT	
AC input voltage range (V)	260~475Vac (3W+PE)
Max. input current (A)	77
Frequency range (Hz)	45~66
PF	≥0.99
THDi	≤5%
DC OUTPUT	
Efficiency	≥96%
DC output voltage range (V)	150~1000
Constant power output voltage range (V)	300~1000
Output power (kW)	40
Max. output current (A)	133.3
OTHER INFORMATION OF EQUIPMENT	
Stand-by power consumption (W)	≤7.5
Noise level (dB)	<65 (Rated)
Current regulation accuracy	≤±1%
Voltage regulation accuracy	≤±0.5%
Output voltage error	≤±0.5%
Output current error	≤±0.3A, load current less than 30A; ≤±1%, load current no less than 30A, load current within 20%-100%
Starting impulse current	<110%
Temperature coefficient	≤±0.02% (Reference value +20°C)
Uniform flow unbalance	≤±3.0% (×20A) with load within the range of 50%~100%
Output ripple	Ripple voltage peak factor <1% Effective value coefficient <0.5%
Power overshoot range	No overshoot
Boot time	3~5s (stable rated input to required output voltage)
Dimension (W×D×H) mm	300×462×86
Weight (kg)	≤16.5
Input standby reactive power(Var)	600
EMC	Class B
CONFIGURATION AND PROTECTION	
Operation indicator	Power, alarm, fault
Communication	CAN (500kbps) + Digital enable signal
AC input three phase unbalance protection	Yes
AC input over/under voltage protection	Yes
DC output over/under voltage protection	Yes
Over-temperature protection	Starting protection when >70°C, and automatically recover when ≤65°C
Output current limit protection	Yes
Short-circuit protection	Yes
WORKING ENVIRONMENT	
Altitude (m)	≤2,000 (derate when altitude >2,000m)
Working temperature (°C)	-40~70, derating output for temperature above 55°C; -20°C rated output, it can be started at -40°C
Storage temperature (°C)	-40~75
Humidity	5%~95%

- The size of the product shall be subject to the actual contract.
- Specification is subject to change without prior notice.