



EV3 Series 40kW SiC Charging Module

EV3102-040K-HR-UC

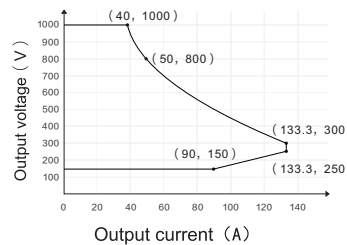


Product Features

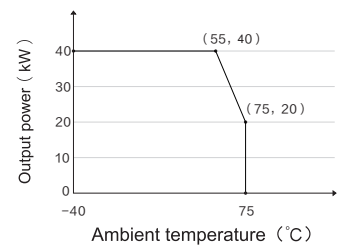
- Output voltage DC 150-1000V to meet the requirements of most electric vehicles
- DC 300-1000V wide voltage constant power output, the whole section is continuous, high reliability
- Module output peak current up to 133.3A, leading the industry
- With the SiC device, the peak efficiency of the charging module can reach 97%, which saves more power and energy, 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
- The unique three-proof design (moisture proof, fungi-proof, salt-fog-proof) and advance dipping process are for harsh environments and ensure the long service life
- Ultra-wide operating temperature range -40~75°C, derating output above 55°C
- Four-dimensional intelligent fan control, three level intelligent noise reduction control, with lower noise

Performance Curve

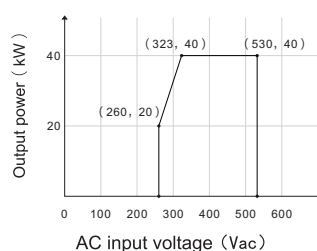
Module output V-A curve



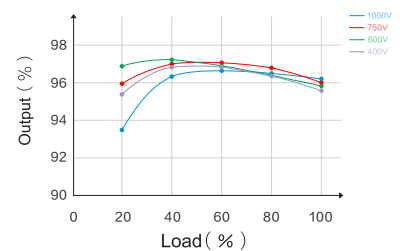
Output power and temperature curve



Output power and AC input voltage curve



Output efficiency curve



Specifications

MODEL		EV3102-040K-HR-UC
AC INPUT	AC input voltage range (V)	260~530Vac (3W+PE)
	Max. input current (A)	75
	Frequency range (Hz)	45~66
	PF	≥0.99
	THDi	≤5%
DC OUTPUT	Efficiency	≥97%
	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)	750
	EMC	Class B
	CONFIGURATION AND PROTECTION	Operation indicator
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(°C)		Protect on temperature over 75, and automatically recover when ≤70
Output current limit protection		Yes
Short-circuit protection	Yes	
WORKING ENVIRONMENT	Altitude(m)	≤2,000 (derate when altitude >2,000)
	Working temperature(°C)	-40~75, rated output for temperature -20~55
	Storage temperature(°C)	-40~75
	Humidity	5%~95%

* The product is being continuously updated, please refer to the latest information.

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