



EV3 Series 30kW Charging Module

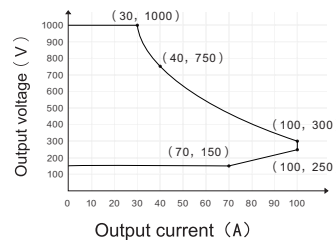
EV3102-030K-HR1(UL)

Product Features

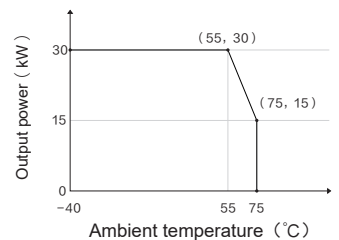
- Output voltage DC 150-1000V to meet the requirements of most electric vehicles
- DC 300-1000V wide voltage constant power output, the whole section is continuous, high reliability
- Module output peak current up to 100A, leading the industry
- High efficiency and low loss, peak efficiency high up to 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
- The unique three-proof design (moisture-proof, fungi-proof, salt-fog-proof) and advanced dipping process are for harsh environments and ensure the long service life
- Hot-plug design, easy to maintain
- Module address intelligent recognition

Performance Curve

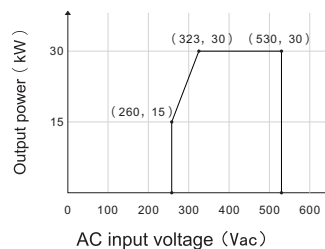
Module output V-A curve



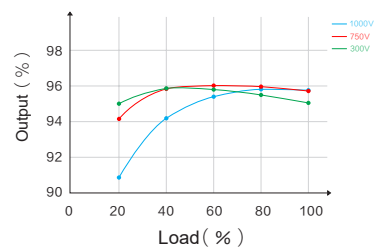
Output power and temperature curve



Output power and AC input voltage curve



Output efficiency curve



Specifications

MODEL		EV3102-030K-HR1(UL)
AC INPUT	AC input voltage range (V)	260~530Vac (3W+PE)
	Max. input current (A)	58
	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)	30
	Max output current (A)	100
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
	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 >2,000m)
	Working temperature (°C)	-40~75, derating output for temperature above 55°C
	Storage temperature (°C)	-40~75
	Humidity	5%~95%

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

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