

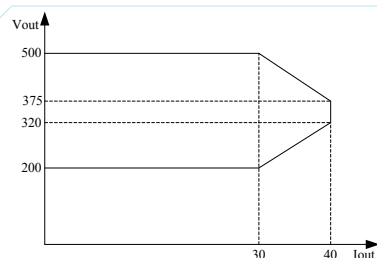
EV3 Series Charging Module 15kW



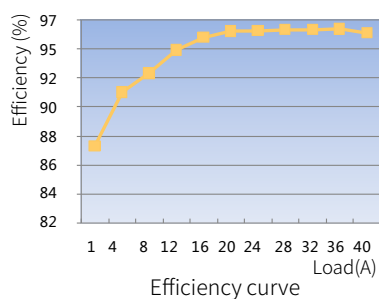
Product Features:

- ◆ Exquisite shape, small size, height of only 2U and strong compatibility.
- ◆ Ultra low standby power consumption, less than 13W.
- ◆ Adopting three-level soft switching technology, and possessing high efficiency of the whole machine.
- ◆ Technology of APFC active power factor correction with little grid disturbance.
- ◆ Fully digital dual-DSP design, high precision, fast speed and good performance.
- ◆ Wide range temperature output: 55° C at full load, and 75° C at half load.
- ◆ Efficiency of 96% and low energy consumption.
- ◆ Imported products for the core components with stable and reliable performance.
- ◆ Unique three-proofing (salt fog, moisture and mildew proof) design and long service life.
- ◆ Hot plug design and online maintenance.

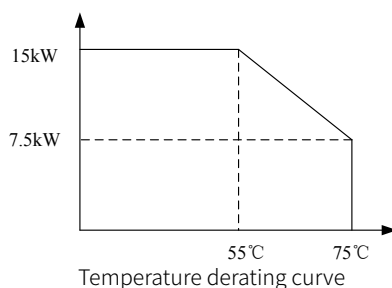
500V constant power output characteristic curve



Characteristic curve beyond output

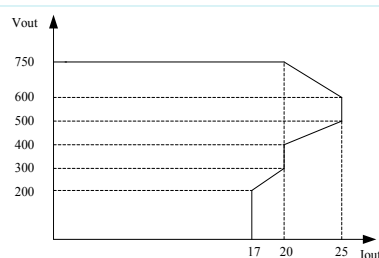


Efficiency curve

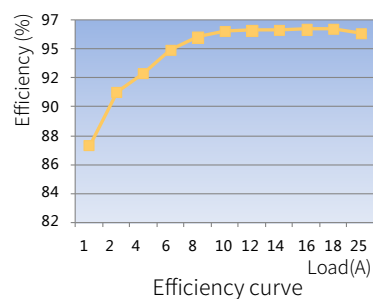


Temperature derating curve

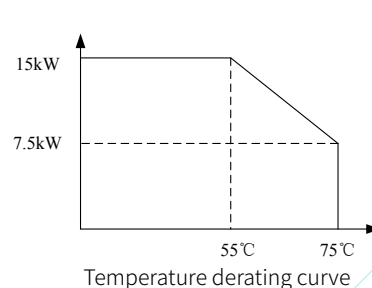
750V constant power output characteristic curve



Characteristic curve beyond output



Efficiency curve



Temperature derating curve

Specification

Specification		Model	EV3500-015K-HR	EV3751-015K-HR
Product Name			Low-voltage constant-power charging module	Constant-power charging module with wide range of voltage
AC Input	Ac Input Voltage Range (V)		380±20%	
	Maximum Input Current (A)		33	
	Frequency Range(Hz)		45~66	
	Input Power Factor		≥ 0.99	
	Current Harmonic (THDI)		≤ 5%	
DC Output	Efficiency		≥ 96%	
	Output Voltage Range (V)		200 ~ 500	200 ~ 750
	Constant-power Output Voltage Range (V)		375 ~ 500	600 ~ 750
	Output Power (kW)		15	
	Maximum Output Current (A)		40	25
Other Information of the Equipmen	Stand-by Power Consumption (W)		≤ 13	
	Noise (Db)		< 55	
	Steady Current Precision		≤ ±1%	
	Steady Voltage Precision		≤ ±0.5% (-20°C ~50°C)	
	Output Current Error		≤ ±0.3%	
	Output Voltage Error		≤ ±0.1A with load current less than 10A; ≤ ±1%, and the load current is greater than or equal to 10A, within the range of 20%~100%.	
	Inrush Starting Current		< 110%	
	Temperature Coefficient		≤ ±0.02% (the reference value is +20°C)	
	Degree of Current-sharing Unbalance		≤ ±3.0% (×20A) with load within the range of 50%~100%	
	Output Ripple		Ripple voltage peak factor< 1% Effective value coefficient< 0.5%	
	Turn-on Overshoot Amplitude		No overshoot	
	Starting Time for Starting Up		3s~8s (stable rated input to output voltage of 500 VDC)	3s~8s (stable rated input to output voltage of 750 VDC)
	Reliability (MTBF)		400000	
	Dimensions (WxDxH) (mm)		223×440×87	
	Weight (Kg)		≤ 9	
Configuration and Protection Information	Running Indication		Power supply, operating, parallel operation, and faults	
	Communication Mode		CAN	
	Event Record		●	
	Three-Phase Unbalance Protection of AC Input		●	
	Overvoltage/Undervoltage Protection Of AC Input		Undervoltage: 285Vac~304Vac (line voltage)/overvoltage: 465Vac~475Vac (line voltage)	
	DC Output Overvoltage/Undervoltage Protection		Overvoltage protection point: 530V (±10V)	Overvoltage protection point: 780V (±10V)
	Lightning Protection (Ka)		5	5
	Over-temperature Protection		starting protection when >75° C, and automatically recover when ≤ 70° C.	
	Output Current Limit Protection		●	
	Short-circuit Protection		●	
	Over-temperature Protection		●	
Operation Environment	Altitude (m)		≤ 4000	
	Operating Temperature (° C)		-20~75, derating output for temperature above 55° C	
	Storage Temperature (° C)		-40~75	
	Average Relative Humidity		5%~95%	

Note: 1. ● standard ○ Optional; 2. The product size is subject to the actual contract.