

# SOLTERRA

## ST100060kV1

60kW CHARGING MODULE



### PRODUCT INTRODUCTION

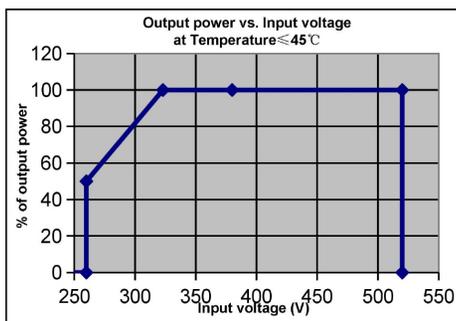
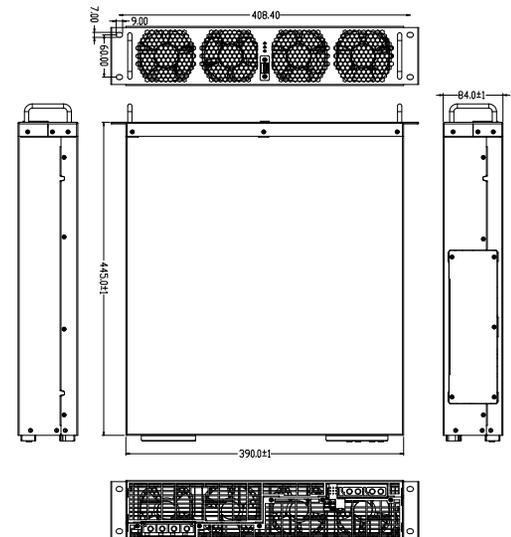
This **ST100060kV1** charging module adopts the world's leading power technology specially designed for the power conversion equipment of EV charging, with an ultra-wide constant power output voltage range. It has the characteristics of active power factor correction, high efficiency, high reliability, intelligent control and attractive appearance; The module adopts intelligent air-cooled heat dissipation technique, with high power density and small space occupation; It has the functions of hot plug and battery back filling protection.

### APPLICATIONS

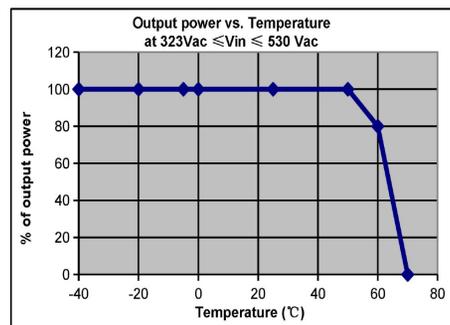
e-Cars, e-Buses, e-Trucks, e-Boats etc.  
EV fast chargers, charging cabinets, battery swap stations, test benches.

### KEY FEATURES

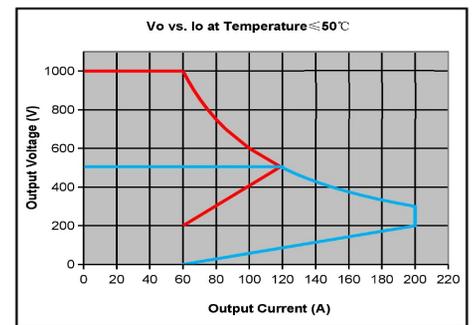
- High Efficiency**  
Peak  $\geq 96\%$ , full-load  $\geq 95\%$
- Active PFC**  
PF  $\geq 0.99$ , THD  $\leq 5\%$
- Wide Output Voltage**  
200-1000Vdc
- Wide Input Voltage**  
323-520Vac full load; derate below 260Vac
- Wide Temperature**  
 $-40^{\circ}\text{C}$  to  $70^{\circ}\text{C}$  (derate above  $50^{\circ}\text{C}$ )
- Hot Swappable**  
Hot plug + parallel installation



AC Input Derating Curve



Temperature Characteristic Curve



Output V-I Characteristics

## ST100060kV1 SPECIFICATIONS

Parameter	ST100060kV1 (60kW)	
<b>Input</b>	Rated Input Voltage	3-phase 380Vac / 480Vac
	Input Voltage Range	323-520Vac (full load); 260-323Vac (linear derate to 50% load)
	Input Current	≤120A
	Frequency	45-65Hz
	Power Factor (PF)	≥0.99
	Total Harmonic Distortion (THD)	≤5%
	Input Protection	Fuse; surge / lightning circuit
	Zero Standby Power	Optional (A/B variant)
<b>Output</b>	Output Voltage Range	200-1000Vdc
	Rated Output Power	60kW
	Rated Output Current	200A
	Current Limit Adjustment	1%-110% (stepless)
	Ripple & Noise (p-p)	≤1%
	Voltage Regulation Accuracy	≤±0.5%
	Current Regulation Accuracy	≤±1%
	Current Sharing	≤±5%
	Efficiency	Peak ≥96%, full-load ≥95%
<b>Communication &amp; Alarm</b>	Communication Interface	CAN
	Max Parallel Installation	31 modules
<b>Environment</b>	Operating Temperature	-40°C to 50°C full power; derate 50°C to 70°C
	Storage Temperature	-40°C to 85°C
	Relative Humidity	0-95% RH, non-condensing
	Altitude	Up to 4000m; no derate below 2300m; derate 1% per 100m above 2300m
<b>General Spec</b>	Insulation Strength	Input-case: 2500Vac / 3535Vdc, 1 min; Input-output: 2500Vac / 3535Vdc, 1 min
	MTBF	>120,000 hours
	Dimensions (W x H x D)	390 x 84 x 445 mm
	Weight	22 kg

### SOLTERRA TECHNOLOGIES PVT LTD

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Disclaimer: The specifications in this catalog are for reference only. The performance of the products may vary depending on application scenarios and environmental conditions. Product specifications are subject to change without prior notice.