

# SOLTERRA

## ST100040kV1

40kW CHARGING MODULE



### PRODUCT INTRODUCTION

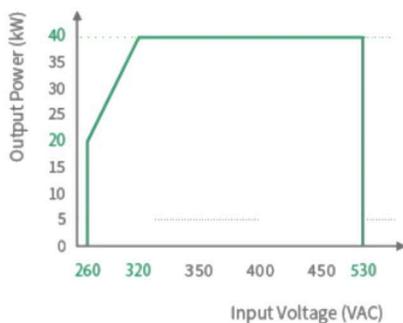
This **ST100040kV1** charging module adopts the world's leading power technology specially designed for the power conversion equipment of EV charging, with an ultra-wide constant power output voltage range. It has the characteristics of active power factor correction, high efficiency, high reliability, 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

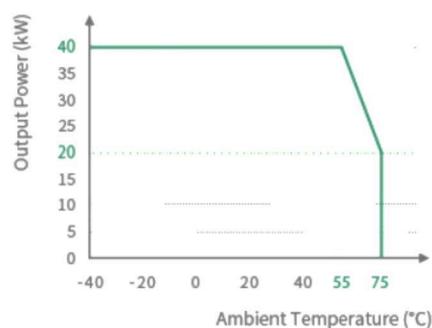
e-Cars, e-Buses, e-Trucks, e-Boats etc.

### KEY FEATURES

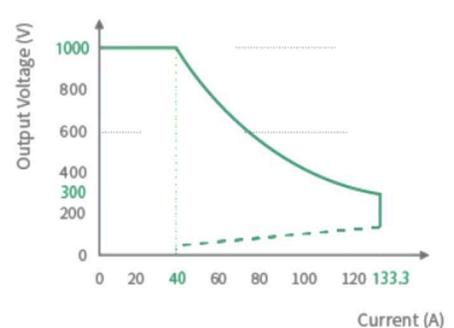
- High Efficiency
- High Power Density
- Low Grid Impact
- Wide Output Voltage Range
- Wide Operation Temperature
- Hot Swapping
- Failure Self-detection Prompts



AC Input Derating Curve



Temperature Characteristic Curve



Output V-I Characteristics

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## ST100040kV1 SPECIFICATIONS

Parameter		ST100040kV1
Input	Voltage	260~485Vac
	Current	< 80A
	Frequency	50Hz~60Hz
	Power Factor	≥0.99 @50~100% load
	THD	3% max under nominal power
	Standby Power	<12W
Output	Voltage Range	50-1000Vdc
	Nominal Power	40kW @300 – 1000Vdc
	Max Current	133.3A
	Short Circuit Protection	Current limit when in output short circuit, auto recovery
	Voltage Regulation Accuracy	Within ±0.5%
	Current Regulation Accuracy	Within ±1%
Communication & Alarm	Communication	CAN
	Parallel Installation	60 Module max.
	Module Address	Support software setting & hardware setting
Environment	Operation Temperature	-40°C~75°C, derate from 55°C~75°C
	Storage Temperature	-40°C~85°C
	Relative Humidity	Under 98% RH, non-condensing
	Altitude	Under 2000m with nominal power
General Spec	Dimension	300*437*84(W*D*H, mm) w/o handle
	Weight	Under 20KG
	IP Protection	IP20
	Cooling	Force Air
	Noise	58dB @25°C

### SOLTERRA TECHNOLOGIES PVT LTD

Ground Floor, 12/74, Site-IV, Sahibabad Industrial Area, Ghaziabad, Uttar Pradesh 201010

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.