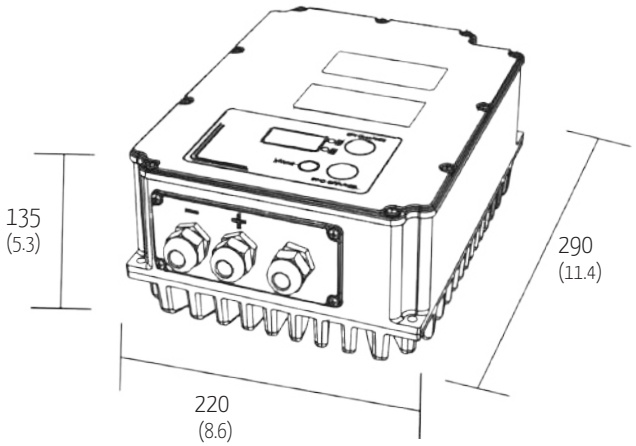
BATTERY CHARGER SG3

ZIVAN®
HIGH FREQUENCY BATTERY CHARGERS

Highlights

Sealed and robust 3 kW battery charger with rugged and vibration-proof design. SG3 has been awarded by leading OEMs in construction equipment, e-mobility, agriculture, aerial work platforms, outdoor power equipment, mobile robotics and other sectors.





mm (Inch.) - Weight: < 8 Kg (17.6 lbs)

Features

- **Compact and vibration proof** design suitable for onboard installation
- **Universal AC input range**
- **High protection level up to IP65**
- **Wide operating temperature range**
- **CANopen based, SAE J1939 protocols**
- **Optional integrated EVSE controller** for charging from EV AC charging stations
- **Stackable** for scalable charging power
- **I/O cables and optional HMI** in the delivery scope
- **Suitable for off-board installation** (stationary or portable)

Technical Features

MAINS SIDE

DESCRIPTION	ALL MODELS
Nominal output power	Up to 3000 W
Output voltage range	From 24 VDC up to 96 VDC
Max output current	Up to 80A (24 & 36 VDC output voltage)
AC Input voltage range	95-265 VAC
Nominal AC Input range	50/60 Hz
Max AC Input current	16 A
Power factor correction	>0.98

GENERAL

COMMUNICATION	CONFIGURABLE MODELS
Isolated CAN Bus	CANopen and SAE J1939 protocols
EVSE compatibility (optional)	SAE J1772 (level 1 and 2) and EN 61851 (mode 2 and 3)
EV receptacle signals (optional)	Receptacle lock actuator, control up to 6 receptacle indication LED's, inlet sensor temperature signal
	PROTECTION
Input	Surge, over current, under voltage protection
Output	Short circuit, over-load,reverse polarity, over temperature, current limit protection
MECHANICAL	**FAN COOLED MODEL**
Dimension (excluding connectors)	290 x 220 x 135 mm (11.4 x 8.6 x 5.3 inch.)
Weight	< 8 Kg (17.6 lbs)
Cooling	Forced convection with variable speed fan
IP Protection	Up to IP65
AC Input Connector	According to customer request
DC Output Connector	According to customer request
Signaling Output Connector	According to customer request
Mounting holes	M6 diameter holes
	ENVIRONMENTAL & STANDARD COMPLIANCE
Global standard compliance	UL/CSA, CE, CEC, UNECE R10, UKCA
Environmental	Vibration & shock profile according to non-road and on-road vehicle applications
Efficiency	93% peak efficiency, California Energy Commission (CEC)
Operating temperature	-20°C/+70°C (-4°F/+158°F) full nominal power up to +50°C (+122°F) ambient temperature
Storage temperature	-40°C/+85°C (-40°F/+185°F)
VOLTAGE	**CURRENT**
24 V	80 A
36 V	80 A
48 V	60 A
72 V	42 A
96 V	30 A