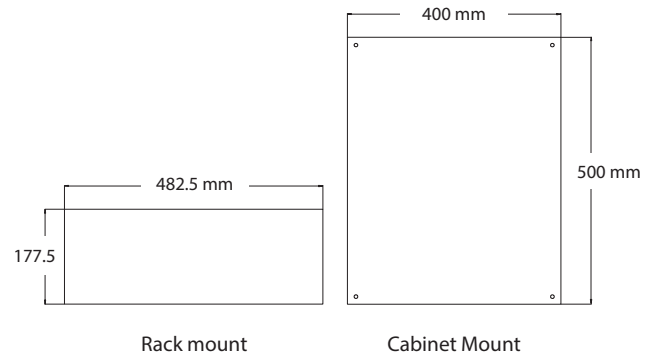




Technical Drawing



Product Introduction

The SPS series solar charge controllers are advanced electronic systems for solar powered applications in remote locations, such as telecommunication sites. They prevent overcharging, reduce water loss in the battery electrolyte and prevent deep discharge. These features extend battery life considerably.

The SPS system’s simple modular construction enables optimal performance while also providing more features than any other controller in its class. Additionally, slow-switching regulation minimizes EMI emissions, making the SPS system ideal for telecom applications.

Product Features and Functions

- Ideal for large telecom sites up to 21 kWp
- All control levels are fully adjustable and can be changed via serial interface
- Bank switching design creates ultra-low EMI emissions
- Two-stage boost/float charging with low heat generation
- Setup data stored in non-volatile EEPROM memory
- Available in common positive and negative versions
- Available in cabinet or rack mount configurations
- Customizable to site requirements
- Interface for additional alarms and generator control
- Configurable for remote monitoring

Technical Data

Type	SPS 100	SPS 200	SPS 300
System Voltage	12 / 24 / 48 V versions		
Max. Charge/Load Current	100 A	200 A	300 A
Float Charge	12-15 / 24-30 / 48-60 V (adjustable)		
Boost Charge	13.5-17 / 27-34 / 54-68 V (adjustable)		
Boost Charge Activation	12-13.5 / 24-27 / 48-54 V (adjustable)		
Deep-Discharge Protection	11-11.75 / 22-23.5 / 44-47 V (adjustable)		
Overvoltage Protection	Adjustable		
Max. PV Panel Voltage	23.5 / 47.5 / 94 V		
Temperature Compensation	-30 mV/K (12 V), -60 mV/K (24 V), -120 mV/K (48 V) (with optional remote sensor)		
Idle Self-Consumption	60 mA (typical), 170 mA (max.)		
Grounding	Common Positive or Negative available		
Ambient Temperature	-15 to +55 °C		
Max. Altitude	5,000 m above sea level		
Battery Type	Lead acid (gel, AGM, flooded)		
Max. Wire Cross Section	Battery: variable by version, up to 150 mm <sup>2</sup> Solar: variable by version, up to 50 mm <sup>2</sup> Load: 50 mm <sup>2</sup> Alarms: 1 mm <sup>2</sup>		
Cabinet Dimensions (WxHxD)	400 x 500 x 240 mm / 19.7 x 15.8 x 9.5 in		
Rack Dimensions (WxHxD)	482.5 x 177.5 x 285 mm / 19 x 7 x 11.3 in		
Weight	16 kg / 35.3 lbs		
Ingress Protection	IP66 cabinet		
Certificates	CE compliant, RoHS compliant		
Warranty	5 years		