



Unit 111, Dunston Innovation Centre
 Chesterfield, S41 8NG, U.K.
 T e l : + 44 (0) 1246 452909
 F a x : + 44 (0) 1246 452942
 W e b : w w w . e t p s . c o . u k
 E m a i l : s a l e s @ e t p s . c o . u k
 S a l e s : 0 8 0 0 6 1 2 9 5 7 5

GR-PSR Solar Charge Controllers



Description



This range provides controllers for low power and high power applications. The GR-PSR-4 will charge a 12V/24V battery at up to 4A without overcharging it. The GR-PSR-4A has the addition of deep discharge protection. This means that the load will be disconnected automatically at a preset low voltage level and reconnected when the battery is recharged.

The GR-PSR-8 provides the same control as the GR-PSR-4A but with 8A capability, a battery voltage selector switch and temperature compensation. The GR-PSR-20 provides the same control and functionality as the GR-PSR-8 but with 20A capability for both large domestic premises and industrial applications.

Selection Table

Part Number	Nominal Voltage	Charging Current	Maximum Load	Max. Power Consumption	Temp. Sensor
GR-PSR-4	12/24V (jumper)	4A	4A	0.6mA	—
GR-PSR-4A	12/24V (jumper)	4A	4A	1.5mA	—
GR-PSR-8	12/24V (switch)	8A	8A	3mA	Built-in
GR-PSR-20	12/24V (switch)	20A	20A	4mA	Cable

Technical Data

	GR-PSR-4	GR-PSR-4A	GR-PSR-8	GR-PSR-20
Final Charging Voltage Limit				
Normal	13.8/27.6V	13.8/27.6V	13.7/27.4V	13.7/27.4V
Gas Control Deactivated	—	—	14.1/28.2V	14.1/28.2V
Temperature Compensation	—	—	-4mA/K/Cell	-4mA/K/Cell
Deep Discharge Protection				
Load Disconnection	—	10.5/21V	11.1/22.2V	11.1/22.2V
Load Reconnection	—	12.5/25V	12.6/25.2V	12.6/25.2V
Gas Regulation				
Gas Control Activation Voltage	—	—	12.4/24.8V	12.4/24.8V
Final Gas Control Voltage Limit	—	—	14.5/29V	14.5/29V
Temperature Compensation	—	—	-3mA/K/Cell	-3mA/K/Cell
Other				
Built-in Fuse	—	—	10A	20A
Battery charge and complete signals	2 LEDs	2 LEDs	2 LEDs	2 LEDs
Temperature Range	-10°C to +50°C	-10°C to +50°C	-25°C to +50°C	-25°C to +50°C
Dimensions (W x H x D)	57 x 28 x 68mm	57 x 28 x 68mm	95 x 35 x 95mm	100 x 85 x 190mm
Weight (Approx.)	150g	150g	240g	300g
EMC Directive (89/336/EEC)	EN50081-1:01.92; EN50082-1:01.92			

Every effort is made to ensure that the information provided within this technical summary is accurate. However, ET must reserve the right to make changes to the published specifications without prior notice. Where certain operating parameters are critical for your application we advise that they be confirmed at the time of order. ET specialises in modifying its proven platforms to suit your needs. Please contact our office if your requirement is non-standard. Please note that your actual unit may differ from those shown.