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GR-PSR-LS

Solar Charge With Light Sensor & Timer



Description



This GR-PSR-LS is an intelligent solar charge controller. The unit features an adjustable light sensor along with a built-in timer. Connected loads can be set to automatically switch on at dusk for a preset time period. Applications for the controller include solar billboard illuminations, solar street lights, solar garden lights, solar weather stations and marine indication lights. The controller features deep discharge protection to protect the battery from damage. If the battery voltage drops 12½% from the nominal the DC load is automatically disconnected no matter whether the timer is still running. It will reconnect the load once the battery has been recharged. The light sensor can be extended if it is required to recognise light levels in a location separate to where the controller is mounted. The sensor can also be removed enabling the GR-PSR-LS to be used as a normal solar regulator without light control.

Technical Data

	GR-PSR-LS
Nominal Voltage	12/24V (jumper-selectable)
Maximum Charging Current	10A
Maximum DC Load Current	10A
Maximum Power Consumption	3mA
Temperature Sensor	Built-in
Final Charging Voltage Limit	
Normal	13.8/27.6V
Deep Discharge Protection	
Load Disconnection	10.5/21V
Load Reconnection	12.5/25V
Light Control	
Light Sensor Type	Photo resistor
Light Sensitivity Level	Adjustable by a trimmer
Timer	
Adjustable ON Time	0 - 5 hours by a trimmer
Built-in Fuse	10A
Battery charge and complete signals	2 LEDs
Temperature Range	-25° C to +50° C
Dimensions (W x H x D)	95 x 35 x 95mm
Weight (Approx.)	240g
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.