



BP SOLAR

# SOLAR CHARGE REGULATORS

## GCR/M

*The BP Solar GCR range of regulators are one of the most sophisticated solar regulators on the market today.*

### SELF LEARNING

The GCR range has the built in ability to adapt itself to user behaviour and temperature. "Fuzzy Logic" control provides a self learning ability which simply means better care for your batteries.

The GCR uses "S.O.C." to continually determine what is happening in your Solar System. The LCD display provides (amongst other things) a simple bar graph that shows "state of charge", ultimately what every user wants to know. In addition it shows, Volts, Amps In, Amps Out, and errors. LED's are standard across the range and provide clear simple indications of what status your system is at.

### COMPLIANCE

The GCR complies with all relevant standards and meets the requirements for EMI. Being a series/shunt regulator it is ideally suited for solar systems which require virtually zero interference.



### APPLICATIONS

Small  
Telecommunication  
Systems

Community/  
Village Power

Remote Farm  
Buildings

Community/  
Village Lighting

Community/Village  
Television & Radio

Holiday Homes

Caravanning

Boating



# GCR SOLAR CHARGE REGULATORS

Technical Specifications	PRODUCT RANGE			
	GCR-800(m)	GCR-1200(m)	GCR-2000(m)	GCR-3000(m)
Max. charge current at 50°C	8A	12A	20A	30A
Max. load current at 50°C	8A	12A	20A	30A
Fuse rating	10A	15A	20A	30A
System voltage	12/24V			
	Automotive adaption to system voltage			
Grounding	Positive or Negative			
Hybrid circuit	X	X	X	X
Temperature compensation	-4mV/K/cell			
Temperature sensor	integrated			
SOC-LED	State of charge monitoring with disconnection prewarning			
INFO-LED	System status display with error monitoring			
Protection	Overvoltage, wrong polarity, short circuit protection			
Electronic protection	Over-and undervoltage; module and load current; overtemperature			
Battery sense wire	Not necessary, voltage drop will be calculated and compensated			
Digital display	M-Version			
Enclosure	IP22 (optional IP66 available)			
Connection (fine/single wire)	16/25mm <sup>2</sup> 6/4 AWG			
Dimensions	187 x 48 x 106			
Weight	420gm M-Version 450gm			

## Electrical Data at 25°C

End of charge voltage	13.7V/27.4V			
Cycle charge activation	SOC<70% after section (12.4V / 24.8V)			
End of cyclisation voltage 1h	14.4V / 28.8V			
Equalisation charge activation	SOC<40% after section (11.7V / 23.4V)			
End of equalisation voltage 1h	14.7V / 29.4V not by gel selection			
Monthly charge activation	After 30 days for 1 hour			
Disconnection prewarning	SOC<40% after selection (11.7V / 23.4V)			
Disconnection level	SOC<30% after selection (11.1V / 22.2V)			
Reconnection level	SOC>50% after selection (12.6V / 25.2V)			
Low voltage	10.5V / 21.0V			
Over voltage	15.0V / 30.0V			
Modul overcurrent (load disconnection)	8.8A	13.2A	22A	33A
Load overcurrent disconnection after 2 min.	8.8A	13.2A	22A	33A
Load overcurrent disconnection after 4 sec.	10.5A	15.5A	26A	38A
Overtemperature (load disconnection)	Disconnection approx. 85°C, reconnection approx. 70°C			

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