

Technical data

Electrical Data	
Operating voltage	12 V or 24 V; automatic recognition
Voltage range 12 V	6.9 V – 17.2 V
Voltage range 24 V	17.3 V – 43.0 V
Permitted operating temperature range	-10 °C to +50 °C
Permitted storage temperature range	-20 °C to +80 °C
Power consumption mA	12,5 mA
PWM-Frequency	30 Hz
Maximum input voltage	< 47 V
Minimum battery voltage	6.9 V

Currents					
	PR 1010	PR 1515	PR 2020	PR 3030	
Max. continuous module current at 25 °C	10 A	15 A	20 A	30 A	
Max. continuous load current at 25 °C	10 A	15 A	20 A	30 A	

Excess Temperature Protection

Disconnect load >85 °C

Reconnect load <75 °C

Data for final charging voltage				
Depends on set battery type	Gel – storage battery (GEL)	Liquid elektrolyte (Li)		
Float charge	14.1 V / 28.2 V	13.9 V / 27.8 V		
Boost charge; for 2:00 h	14.4 V / 28.8 V	14.4 V / 28.8 V		
Equalization charging; for 2:00 h		14.7 V / 29.4V		
30 day maintenance charge, if necessary	14.4 V (28.8 V) (for 2:00 h)	14.7 V (28.8 V) (for 2:00 h)		
Temperature compensation	-4 mV per °K and cells (internal sensor pre- sent, optional external sensor possible)			

Charge controller activation			
Activation threshold of the charge type	SOC Control	Voltage control	
Float charge	SOC >=70 %	>=12.7 V resp. >= 25.4 V	
Boost charge	SOC 40 % - 69 %	11.7 V - 12.4 V; resp. 23.4 V - 24.8 V	
Equalization charge	SOC < 40 %	< 11.7 V resp. 23.4 V	
30 day maintenance charge	if within 30 days no equalization or boost charge was active.		
Load disconnection			
	SOC Control	Voltage control	
Early warning load disconnection	SOC <40 %	< 11.7 V / 23.4 V	
Load disconnection	SOC <30 %	< 11.1 V / 22.2 V	
Load reconnection	SOC >50 %	> 12.6 V / 25.2 V	
Mechanical Data			
Protection type	IP 32		
Installation	wall installation		
Weight	350 g		
Housing	recycledable, plastic housing		
Dimensions L x B x H	187 x 96 x 44 mm		
Fastening hole clearance	vertical 60 mm; horizontal 177 mm		
Terminals	16 mm²/ 25 mm² / AWG: 6 / 4 mm²		

(fine / strand)