



samlexsolar®
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10-30A



Charge Controllers Solarix PR Series

Model
PR-1010, 10 Amps
PR-1515, 15 Amps
PR-2020, 20 Amps
PR-3030, 30 Amps

Design Features

- Micro-controller based, multistage, temperature compensated charging using PWM / Shunt control
- State of Charge (SOC) Control with unique Steca-AtonIC and Data Logger for optimum charging
- Automatic detection of 12V / 24V battery
- Self-Testing
- Simple menu driven operation through graphical LCD display
- Night Light and Day Light Functions
- Displays charged and discharged energy in Ampere Hours
- Lower EMI - ideal for telecommunications

2 YEAR LIMITED WARRANTY

		PARAMETER	PR-1010	PR-1515	PR-2020	PR-3030
BATTERY SYSTEM	NOMINAL VOLTAGE		12V (24V), Automatic Detection			
	BATTERY VOLTAGE DETECTION		6.9V to 17.2V: Detects as 12V Battery		17.3V to 43V: Detects as 24V Battery	
	MINIMUM BATTERY VOLTAGE TO OPERATE		6.9V	6.9V	6.9V	6.9V
	BATTERY TYPE		Lead Acid (Flooded / AGM / Gel)			
SOLAR ARRAY	MAX OPEN CIRCUIT VOLTAGE		< 47V	< 47V	< 47V	< 47V
	MAX SHORT CIRCUIT CURRENT AT 25°C		10A	15A	20A	30A
CONTROLLER CHARACTERISTICS	TYPE		Shunt, PWM	Shunt, PWM	Shunt, PWM	Shunt, PWM
	PWM FREQUENCY		30 Hz	30 Hz	30 Hz	30 Hz
	SELF CONSUMPTION		12.5 mA	12.5 mA	12.5 mA	12.5 mA
	DISPLAY		Graphical LCD Display for Operating Parameters, Fault Messaging & Self Test			
	TEMPERATURE COMPENSATION		-4m V per K and cell (internal sensor)			
	GROUNDING		Common Positive Grounding. Negative Grounding only on Battery Negative			
FINAL CHARGING VOLTAGES	BOOST (FOR 2 HOURS)		14.4V (28.8V)	14.4V (28.8V)	14.4V (28.8V)	14.4V (28.8V)
	FLOAT		Liquid Electrolyte: 13.9V (27.8V) / Gel Cell: 14.1V (28.2V)			
	EQUALIZATION (FOR 2 HOURS) 30 DAY MAINTENANCE (2 HOURS)		Liquid Electrolyte: 14.7V (29.4V) / Gel Cell: No Equalization Liquid Electrolyte: 14.7V (29.4V) / Gel Cell: 14.4V (28.8V)			
LOAD CONTROL	MAX LOAD CURRENT AT 25°C		10A	15A	20A	30A
	LOW VOLTAGE DISCONNECT		SOC Mode: < 30% / Voltage Control Mode: 11.1V / 22.2V			
	LOW VOLTAGE RECONNECT		SOC Mode: > 30% / Voltage Control Mode: 12.5V / 25.0V			
PROTECTIONS	ELECTRONIC PROTECTIONS WITH AUTOMATIC RESET AND ELECTRONIC FUSE		<ul style="list-style-type: none"> - Reverse Polarity of Solar Array / Load / Battery Connections - Short Circuit at Solar Array Input / Load Output - Over Charge, Over Load, Over Input Voltage and Over Temperature - Deep Discharge / Under Voltage - Reverse Current Flow from Battery to Solar Array at Night - Excessive Solar Array Current - Open Circuit (Battery is Not Connected) 			
INPUT/OUTPUT CONNECTIONS	MAX WIRE SIZES FOR TERMINALS		16mm ² / 25 mm ² or AWG #6 / AWG #4			
EMC COMPLIANCE	CE MARKED		EMC Directive 2004/108/EC European Standards: EN60730-1, EN60730-2-11, EN55014-1, EN55022			
ENVIRONMENTAL	OPERATING AMBIENT TEMPERATURE		-10°C to 50°C / 14°F to 122°F			
	INGRESS PROTECTION CLASS		IP32	IP 32	IP 32	IP 32
MECHANICAL	DIMENSIONS (D X W X H)		187 x 96 x 44 mm / 7.36 x 3.73 x 1.73 inch			
	WEIGHT, KG/LB		0.35 kg / 0.77 lb.			

NOTES: 1. Technical data at 25°C / 77°F
2. Specifications are subject to change without notice

12006-SolarixPR-Series-0815