



### 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 12/24V battery
- Self-testing
- Simple menu driven operationthrough graphical LCD display
- Night light and day light functions
- Display charged and dischargedenergy in Ampere hours

	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 / 13.3V 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			
	PWM FREQUENCY	30 Hz			
	SELF CONSUMPTION	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)			
	FLOAT	Liquid Electrolyte: 13.9V (27.8V) / Gel Cell: 14.1V (28.2V)			
	EQUALIZATION (FOR 2 HOURS)	Liquid Electrolyte: 14.7V (29.4V) / Gel Cell: No Equalization			
	30 DAY MAINTENANCE (2 HOURS)	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	* Reverse Polarity of Solar Array / Load / Battery Connections * Short Circuit at Solar Array Input / Load Output			
INPUT/OUTPUT CONNECTIONS	MAX WIRE SIZES FOR TERMINALS	16mm <sup>2</sup> / 25 mm <sup>2</sup> 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			
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.			

