

SOLAR CHARGE CONTROLLER

- Multi-stage PWM charge control to improve battery performance and life
- Integrated temperature compensation with external temperature sensor
- Low power load controller and PWM solar charger in a single unit
- Overload, short circuit, reverse flow and battery reverse polarity protections with status display
- Intelligent microprocessor control
- Adjustable charging and discharging control parameters
- Optional dawn / dusk operation with timer
- Communication interface with PC or LCD modular¹ for data logging or parameter display
- Low PV to battery drop

- Easy installation, simple handling
- Enables optimum utilization of solar power
- Robust, inexpensive, energy efficient, suitable for rural / urban solar power systems



10 AMP Solar Charge Controller



6 AMP Solar Charge Controller

DESCRIPTION	SPL1206 (6 AMP)	SPL1210 (10 AMP)
Nominal Voltage	12V/24V	12V/24V
Nominal Solar PV Power	150W (12V) / 300W (24V)	150W (12V) / 300W (24V)
Self Consumption	<6ma	<6ma
Battery Charging Current	10A max	10A max
Charging Method	CC-CV	CC-CV
Charge Control	PWM	PWM
Over Load Current	>10A	>10A
Max Load Current	3x rated current	3x rated current
Display Indications	LED (Low Battery, Charging, Over Load)	LED (Low Battery, Charging, Over Load)
Connection	Screw Type Connector for 4 Sq mm wire	Screw Type Connector for 4 Sq mm wire
Installation	Table / wall mounting	Table / wall mounting
Dimension (L X W X H) in mm	145 X 110 X 55	170 X 100 X 55
Box	MS (mild steel) sheet box with non weatherproof power coating	MS (mild steel) sheet box with non weatherproof power coating
Luminary Degree of Protection	IP 20 (Ingress Protection Rating / International Protection Rating)	IP 20 (Ingress Protection Rating / International Protection Rating)
Cooling	Natural air cooled	Natural air cooled
Ambient Temperature	-20°C to +50° C	-20°C to +50° C
Temperature Compensation	-.005V/Degree/Cell	-.005V/Degree/Cell

*Technical data may be changed without prior notice



20 AMP Solar Charge Controller

DESCRIPTION	SPL1220A (20 AMP)
Nominal Voltage	12V / 24V automatic selected
Nominal SPV Power	300W(12V) / 600W(24V)
Self Consumption	<6ma
Battery Charging Current	20A max
Charging Method	CC-CV
Charge Control	PWM (pulse width modulation)
Over Load Current	>20A
Max Load Current	3x rated current
PV to Battery Drop	* 200 mv at rated current
Display Indications	LED (Output On, Low Battery, Over Load, Charging)
Connection	Screw Type Connector for 10 Sq mm wire
Installation	Table / wall mounting
Dimension (L X W X H) in mm	185 X 130 X 85
Box	MS (mild steel) sheet box with non weatherproof power coating
Luminary Degree of Protection	IP 20 (Ingress Protection Rating / International Protection Rating)
Cooling	Natural air cooled
Ambient Temperature	-20°C to +50° C

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40 AMP Solar Charge Controller

DESCRIPTION	SPL2440A (40 AMP)
Nominal Voltage	24V / 48V / 96V
Nominal SPV Power	1200W(24V) / 2400W(48V) / 4800W(96)
Self Consumption	<6mA
Battery Charging Current	40A max
Charging Method	CC-CV
Charge Control	PWM (pulse width modulation)
Over Load Current	>40A
Max Load Current	3x rated currnet
PV to Battery Drop	* 200 mv at rated current
Display Indications	LED (Output On, Low Battery, Over Load, Charging)
Connection	Screw Type Connector for 10 Sq mm wire
Installation	Table / wall mounting
Dimension (L X W X H) in mm	215 X 205 X 65
Box	MS (mild steel) sheet box with non weatherproof power coating
Luminary Degree of Protection	IP 20 (Ingress Protection Rating / International Protection Rating)
Cooling	Natural air cooled
Ambient Temperature	-20°C to +50° C
Temperature Compensation	-.005V/Degree/Cell

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