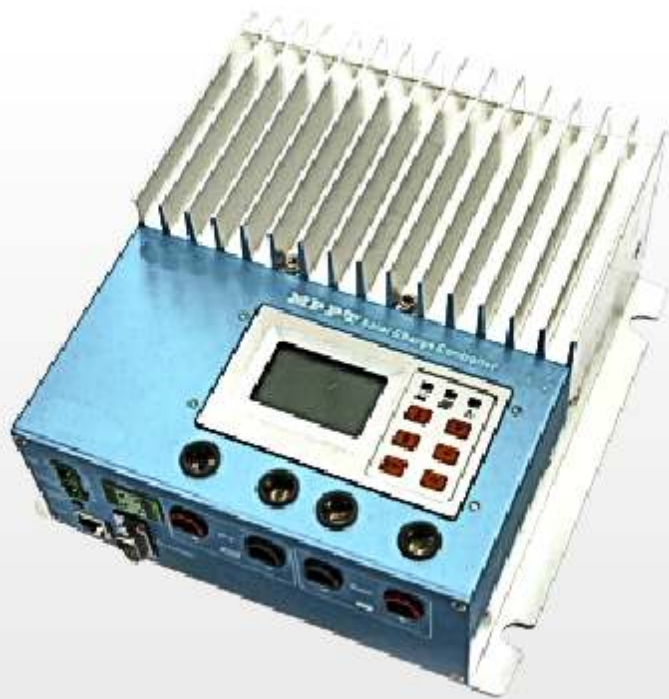


Solar Controllers



MPPT LCD SERIES

This solar charger is based on latest MPPT technology resulting in getting more power from your solar panels.



SPECIAL FEATURES

- Advanced Maximum Power Point Tracker to increase your power from solar panels
- High efficiency >98%
- 12 / 24 / 48v Auto detection
- Easy operation
- Different charging algorithm for different types of battery
- Larger heatsink for better heat dissipation
- Various protections such as Reverse polarity, overvoltage, overcharge, etc.
- Optional Battery temperature compensation
- LCD display
- multi stage charge control

TECHNICAL SPECIFICATION

Model	MPPT -LCD -30A	MPPT -LCD -45A	MPPT -LCD -60A
Rated system voltage	12V/ 24V / 48V auto work		
Rated battery current	30A	45A	60A
Max. PV open circuit voltage	150V		
Voltage range	8~72V		
Max.PV input power	400W (12V)	600W (12V)	800W (12V)
	800W (24V)	1200W (24V)	1600W (24V)
	1200W (36V)	1800W (36V)	2400W (36V)
	1600W (48V)	2400W (48V)	3200W (48V)
Self - consumption	1.4 ~ 2.2W		
Grounding	Negative		
Dimension (mm)	358 x 219 x 102	382 x 231 x 107	440 x 231 x 110
Terminal (mm ²)	35	35	35
Net Weight (kg)	3.7	4.6	5.9
Working temperature	-25 °C~ +55 °C		
Storage temperature range	-30 °C~ +85 °C		
Humidity	10% -90% NC		
Enclosure	IP20		
Altitude	≤3000m		

*Specifications, product shape, look are subject to change without prior notice.

NSCNT SERIES

This solar charger is based on latest PWM/MPPT technology resulting in getting more power from your solar panels.



NSPWM 12V Series



NSMPPT 12/24V Series



NSMPPT 48V series

SPECIAL FEATURES

- MPPT/PWM based battery charging.
- Load and battery status indicator.
- Protections integrated.
- Automatic dusk to dawn. (Optional)
- LCD display (On NSMPPT 48V series only)

TECHNICAL SPECIFICATION

MODEL	NSPWM 12V-05A	NSPWM 12V-10A	NSPWM 12/24V-10A	NSMPPT 12/24V-20A	NSMPPT 12/24V-40A	NSMPPT 48V-40A
Type	PWM	PWM	PWM	PWM	MPPT	MPPT
Battery nominal voltage (Vdc)	12V	12V	12/24V	12/24V	12V/24V	48V
Maximum Solar Input Current (Amps)	6	10	10	20	40	40
Max PV open circuit voltage (Voc)	25	25	25/50	50/100	70	100
Low voltage disconnect (Vdc)	10.5	10.5	10.5/21	10.5/21	10.5/21	42
Max solar panel (Wp)	60	100	100(12v) 200(24V)	300(12v) 600(24V)	600(12V) 1200(24V)	2400
Protections	Solar PV reverse polarity / battery reverse polarity / overload					
Working temp. (0C)-	-20 to +50oC					
Relative humidity	0 to 95% NC					
Indications/display	LED	LED	LED	LED	LCD display	LCD display

*Specifications, product shape, look are subject to change without prior notice.

WEATHER-TUFF

This PWM solar charger is based on a dustproof & moisture proof design to give long and maintenance free life.



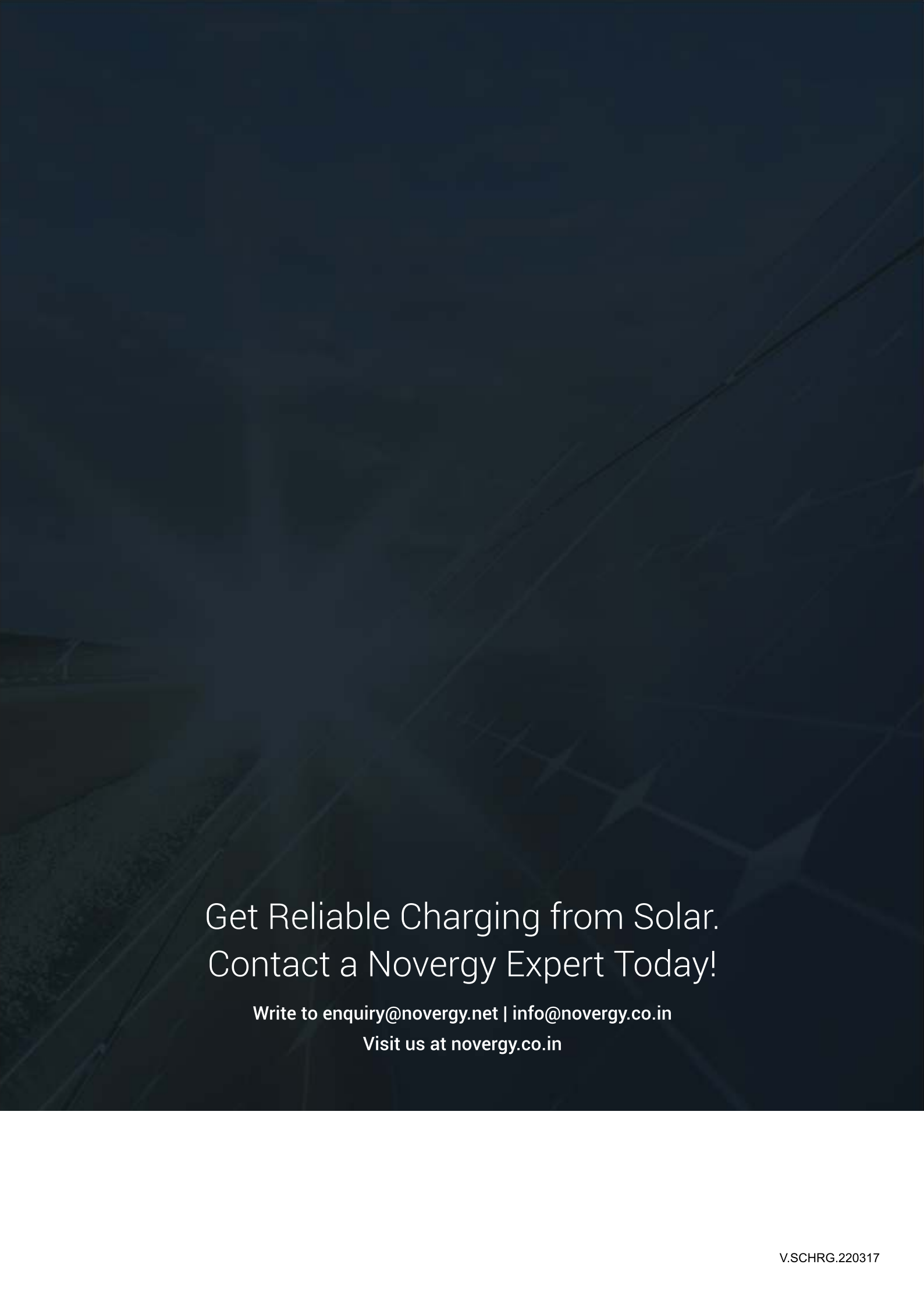
SPECIAL FEATURES

- Dustproof, Moisture Proof
- Aluminium die cast body
- MOSFET Based
- Temperature compensation
- PWM based battery charging
- Dual Timer Function
- Detects day and night automatically (Suitable for street lighting application)
- LED indicators
- In-built protection against shortcircuit, reverse polarity, over load, over heating, over discharging.

TECHNICAL SPECIFICATION

MODEL	WEATHER-TUFF 10/15/20
Battery nominal voltage (VDC)	12 / 24 (Auto detect)
Maximum Solar input Current	10 / 15 / 20
Max battery voltage (VDC)	32
Charge circuit voltage drop (VDC)	< 0.26
Self consumption (Amps)	< 6
Low voltage disconnect (VDC)	11.1 (12v) / x2 (24v)
Float charging voltage	13.8 (12v) / x2 (24v)
Boost charging voltage	14.2 (Gel) / 14.4 (sealed) / 14.6 (Flooded/ x2 (24v)
Equalize charging voltage	14.8v (Flooded) / x2 (24v)
Battery Types supported	Suitable for all types of battery (Eg. Smf, Tubular, Gel, etc)
Electronic protections	Reverse polarity on battery or module, Overcharging, Over discharging, overload, short-circuit, overheating
Wire terminal	Max 6 sq. mm.
Working temperature (oC)	-35 to +55
Humidity	0 to 90% NC
Dimensions (mm)	132 x 70 x 30
Weight (Kg)	0.25
Indicators	LED

*Specifications, product shape, look are subject to change without prior notice.



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