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MPPT SOLAR CHARGE CONTROLLER SPECIFICATION

Modal NO.	OD-MPPT-12/24-50/25		OD-MPPT-12/24-50/35		OD-MPPT-12/24-50/45		OD-MPPT-12/24-50/60		OD-MPPT-12/24-100/25		OD-MPPT-12/24-100/35		OD-MPPT-12/24-100/45		OD-MPPT-12/24-100/60		OD-MPPT-24/48-100/30		OD-MPPT-24/48-100/45		OD-MPPT-24/48-100/60		OD-MPPT-24/48-200/45	
Battery Operating Mode	12V	24V	12	24	12V	24V	12V	24V	12V	24V	12	24	12V	24V	12V	24V	24V	48V	24V	48V	24V	48V	24V	48V
SPV (Pmax)	400W	800W	500W	1KW	700W	1.4KW	1KW	2KW	400W	800W	500W	1KW	700W	1.4KW	1KW	2KW	1KW	2KW	1.4KW	2.8KW	2KW	4KW	1.35KW	2.7KW
Solar input voltage(Voc max)	50V										100V										200V			
Indications	LED/LCD Display																							
Charging method	Preconditioning/Bulk/Float/Equalization																							
Battery voltage Nominal	12V	24V	12V	24V	12V	24V	12V	24V	12V	24V	12V	24V	12V	24V	12V	24V	24V	48V	24V	48V	24V	48V	24V	48V
Battery voltage Preconditioning	10.5V	21.5V	10.5V	21.5V	10.5V	21.5V	10.5V	21.5V	10.5V	21.5V	10.5V	21.5V	10.5V	21.5V	10.5V	21.5V	21.5V	43V	21.5V	43V	21.5V	43V	21.5V	43V
Battery voltage Bulk	14.5V	29V	14.5V	29V	14.5V	29V	14.5V	29V	14.5V	29V	14.5V	29V	14.5V	29V	14.5V	29V	29V	58V	29V	58V	29V	58V	29V	58V
Battery voltage Float	13.8V	27.6V	13.8V	27.6V	13.8V	27.6V	13.8V	27.6V	13.8V	27.6V	13.8V	27.6V	13.8V	27.6V	13.8V	27.6V	27.6V	55.2V	27.6V	55.2V	27.6V	55.2V	27.6V	55.2V
Battery voltage Equalization	15V	30V	15V	30V	15V	30V	15V	30V	15V	30V	15V	30V	15V	30V	15V	30V	30V	60V	30V	60V	30V	60V	30V	60V
Battery type	Lead-Acid (Tubular/SMF) / (Note- Li-ion/Li-Fepo4 Battery solutions are also available based on requirement)																							
Self Power consumption	<1W																							
Max Charging Current	25A		35A		45A		60A		25A		35A		45A		60A		30A		45A		60A		45A	
Solar Reverse Protection	Provided																							
Battery Reverse Protection	Provided																							
Over Current Protection	Provided																							
Short Circuit Protection	Fuse																							
Displayed parameters on LED	Battery Reverse Polarity, Solar Reverse Polarity, Battery Charging, SMU ON(Present in Hybrid Systems Only)																							
Displayed parameters on LCD	PV voltage, PV current, PV power,Battery voltage, Charging current, Cumulative Solar Generated Power(KWH), SMU Status (Present in Hybrid Systems Only) .																							
Switching element	MOSFT/IGBT																							
Efficiency	>95%																							
Cooling	Fan (Forced Air Type Cooling)																							
Cabinet Material	Metallic																							
Cabinet Dimensions (LxWxH)mm	180x180x100				280x180x100				180x180x100				280x180x100											
Color	White																							
Operation Temperature	0°C to 50°C																							

FEATURES:-

- > High Efficiency.
- > Multiple charging stages to maintain battery gravity.
- > Protection from Battery Over Voltage and Current.
- > Automatic battery selection.
- > True MPPT.
- > Protection from reverse flow of current from battery to panel.
- > Easy to install.
- > Eco Friendly.
- > Wall mounting.

SMU SPECS			
	12V	24V	48V
SMU ON	Vbat>13.8V	Vbat>27.6V	Vbat>55.2V
SMU OFF	Vbat<11.5V	Vbat<23.0V	Vbat<46.0V
SMU BYPASS SWITCH FUNCTION			
SWITCH ON	SMU Function enabled		
SWITCH OFF	SMU Function Bypassed		
SMU ON - System Will disconnect the mains power of inverter from grid as soon as battery voltage reaches above 13.8V/27.6V/55.2V for 12V/24V/48V battery system.			
SMU OFF - System will reconnect the mains power of inverter to grid as soon as battery voltage drops below 11.5V/23.0V/46.0V for 12V/24V/48V battery voltage or solar power gets absent .			
Note:-			
SMU function will work only when solar power is present and battery charging is ON.			