



Key Features



30% MORE EFFICIENT



GRID CONTROL FOR SAVING THE ELECTRICITY BILL

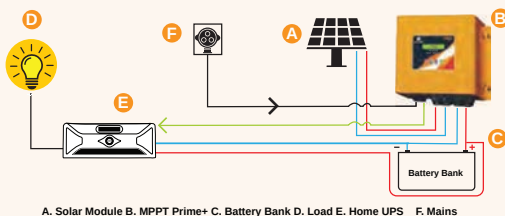


4 DOD LEVEL SETTINGS



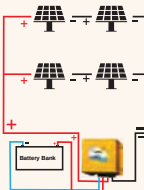
SMART AUTO DETECT BATTERY FUNCTION

BLOCK DIAGRAM OF PRIME+ MPPT SOLAR PCU KIT

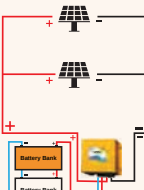


For 12V System

150W Solar Panel will connect in below series

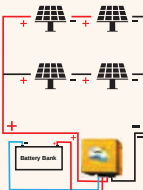


250W Solar Panel will connect in below series



For 24V System

250W Solar Panel will connect in below series



Transform your standard inverter into a high-efficiency solar system with our advanced MPPT converter. Designed for flexible installation, it features a convenient wall-mount option and uniquely connects a 24V solar panel directly to a single battery. Stay fully informed via the intuitive LCD screen, which displays real-time charging status, active power sources, and your total energy savings. For maximum safety, a premium built-in MCB completely shields your connected appliances from short circuits. The system also guarantees long-term reliability with robust environmental and electrical safeguards. Enjoy complete peace of mind with comprehensive protections against reverse solar polarity, extreme temperatures, battery overcharging, and deep discharge.

TECHNICAL SPECIFICATIONS

		12-24 (Auto)		24-48 (Auto)					
MODEL		12V	24V	24V	48V	72V	96V	120V	180V
ELECTRICAL									
Battery Type		LA / Tubular / SMF							
Technology		Digital Processor Based High Efficiency Design							
Max. Battery Current Rating		50AMP.							
Max. PV Voltage Rating		60V ± 2V	85V ± 2V	100V ± 2V	120V ± 2V	200V ± 2V	250V ± 2V	350V ± 2V	450V ± 2V
High PV Voltage		> 60V	> 85V	> 100V	> 120V	> 200V	> 250V	> 350V	> 450V
Max. Solar Panel Wattage		up to 750W@12V Selection	up to 1500W@24V Selection	up to 1500W@24V Selection	up to 3KWp@48V selection	up to 5KWp	up to 6.5KWp	up to 8KWP	up to 12KWp
Battery Qty.12V 100-220AH		1	2	2	4	6	8	10	15
Boost Charging Voltage For Tubular And SMF Battery		14.5V ± 0.2V	29V ± 0.2V	29V ± 0.2V	58V ± 0.4V	87V ± 1V	116V ± 1V	145V ± 1V	217.5V ± 1V
Boost Charging Voltage For LA Battery		14V ± 0.2V	28V ± 0.2V	28V ± 0.2V	56V ± 0.4V	84V ± 1V	112V ± 1V	140V ± 1V	210V ± 1V
Bulk / Absorption Voltage		14.8V ± 0.2V	29.6V ± 0.2V	29.6V ± 0.2V	59.2V ± 0.4V	88.8V ± 1V	118.4V ± 1V	148V ± 1V	222V ± 1V
DOD Level (Depth of Discharge)	20% - if battery voltage is	12.5V	25.0V ± 0.2V	25.0V ± 0.2V	50.0V ± 0.4V	DOD function not available in this segment			
	30% - if battery voltage is	12.0V	24.0V ± 0.2V	24.0V ± 0.2V	48.0V ± 0.4V				
	40% - if battery voltage is	11.5V	23.0V+ ± 0.2V	23.0V+ ± 0.2V	46.0V ± 0.4V				
	50% - if battery voltage is	11.0V	22.0V ± 0.2V	22.0V ± 0.2V	44.0V ± 0.4V				
Mains Connect if Solar Power Not Available		At any Stage of Battery Voltage				Mains Connect / Disconnect: Function Not Available			
Mains Disconnect		If the battery reaches the boost level, the mains will disconnect after <10 minutes.							
D.O.D (Depth of Discharge)		Mains will be connect when battery voltage reach at defined value of the battery voltage							
MPPT To PV Power Connection Time		<15 Sec.							
Peak Efficiency		> 94%							
Mains AC Low Cut / High Cut (WUPS Mode)		90VAC / 295 VAC ± 10VAC				This function Not Available .			
Mains AC Low Cut / High Cut Recovery (WUPS Mode)		110VAC / 285VAC ± 10VAC							
Input Frequency Range		40Hz to 60Hz							
Voltage / Frequency Output in Mains Mode		Same as input							
Panel Configuration (NTC)		375W 2P	250W 2S 3P / 300W 5P	250W 2S 3P / 300W 5P	250W 3S 4P / 330W 3S 3P	330W 4S 4P	330W 5S 4P	330W 6S 4P	330W 10S 4P
Panel Configuration VOC (NTC)		39.75V	74V / 44V	74V / 44V	111V / 132V	180V	225V	270V	450V
PROTECTIONS									
Reverse Battery , Reverse PV Protection / Current Flow to PV , High PV Voltage , Over Current , Thermal Protection		Yes							
MCB		MCB ensures your UPS and connected loads stay protected from short circuits							
DISPLAY PARAMETERS									
LCD Display Messages		Welcome, Smarten Website Address, System Capacity, Mains available, Battery Priority, PV Current, Battery Current, PV Voltage, Battery Voltage							
SCC Fault / Protection Status		Reverse PV / High PV voltage / High Temp.							



SCAN TO CONNECT
WITH GLOBAL SALES



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