

TECHINICAL SPECIFICATION

MODEL - PRIME SERIES SPECIFICATIONS (MPPT BASED)

Model	MPPT CHARGE CONTROLLER		
	72V	96V	120V
ELECTRICAL			
Battery Type	LA/Tubular/SMF		
Technology	Digital Processor Based High Efficiency Design		
Max. BATTERY Current Rating	50AMP.		
Max. PV Voltage Rating	200V±0.5V	250V±1V	350V±1V
High PV Voltage	>200V	>250V	>350V
Max. Panel Install	up to 5000W	up to 6500W	up to 8000W
Battery Qty.12V 100-220AH	6	8	10
Boost Charging Voltage For Tubular And SMF Battery	87V±1V	116V±1V	145V±1V
Boost Charging Voltage For LA Battery	84V±1V	112V±1V	140V±1V
Bulk/ Absorption Voltage	88.8V±1V	118.4V±1V	148V±1V
MPPT To PV Power Connection Time	<15 Sec.		
Peak Efficiency	>94%		
Panel configuration (NTC)	330W 4S 4P	330W 5S 4P	330W 6S 4P
Panel configuration VOC (NTC)	180V	225V	270V
PROTECTIONS			
Reverse Battery	Yes		
Reverse PV Protection	Yes		
Reverse Current Flow to PV	Yes		
High PV Voltage	Yes		
Over Current	Yes,Provided Battery current >50Amp		
Thermal Protection	Yes		
MCB	MCB ensures your UPS and connected loads stay protected from short circuits		
DISPLAY PARAMETERS			
Display Type	LCD Display		
Display Messages	Welcome, Smarten Website Address,System Capacity, battery priority,PV Current,Battery current,PV Voltage,Battery Voltage		
SCC Fault/Protection Status	Reverse PV/High PV voltage /High Temp.		
ENVIRONMENT			
Operating Temperature	0°C To 40°C		
Storage Temperature	0°C To 50°C		
Fixing	Wall Mounted		
Operating Relative Humidity	90% Non-Condensing		

* DOD function is not available In this segment

** Keypad function is not available in this segment

*** Mains Connect disconnect function is not available