

SUNRAY-SOLAR PWM UPS

Technical Specs

Parameters	Units	Rating					
		950	1250	1650	2550	3550	5550
Model	Sunray	950	1250	1650	2550	3550	5550
Operating DC Voltage	V	12	12	24	24	48	48
SPV Parameters							
INPUT VOLTAGE RANGE(MIN-MAX)	VOC	16-30	16-30	32-60	32-60	64-120	64-120
MAX PV POWER RECOMMENDED	W	600	800	1200	1600	2400	3200
Max Batt Current	Amp	50	50	50	50	50	50
Recommended panel cell	CELL	36	36	60/72	60/72	60/72	60/72
PWM BASED CHARGE CONTROLLER							
SWITCHING ELEMENT		MOSFET					
CONTROLLER		DSP					
TYPE OF CHARGER		PWM					
EFFICIENCY		95%					
Battery Charging Stages		5					
Battery							
Low cut off	V	10.5/Batt +/-0.1					
Low cut off recovery	V	11.5/Batt +/-0.1					
Low Buzzer	V	10.7/Batt +/-0.1					
High cut off	V	15.5/Batt +/-0.1					
High cut off recovery	V	15.0/Batt +/-0.1					
Boost Charging Volt by SPV(TUB)	V	14.5/Batt +/-0.1					
Boost Charging Volt by Grid(TUB)	V	14.0/Batt +/-0.1					
Charging current by Grid	A	10A +/- 0.5					
Output							
Output@ No load	V	230					
Output Frequency	Hz	50					
Output Low retry		1 time					
Output short ckt		1 time					
Grid							
No of Phase		1Phase-3Wire P,N,E					
Voltage range(Inverter)	V	100-280 +/-3					
Voltage range(UPS)	V	175-255 +/-3					
Frequency range	Hz	50 +/-3					
Inverter							
Switching Element		MOSFET					
Control		PWM					
Output voltage	V	230					
Phase		1Phase-3Wire P,N,E					
Output Waveform		Sine Wave					
Frequency	Hz	50					
Changeover_INV TO MAINS	ms	<10ms					
Changeover_MAINS TO INV	ms	<10ms					
Output Power factor	Pf	0.8					
Overload	%	100-120/120-150/150-200/200-225/More than 225					
Overload retry		3					
SWITCH		System ON/OFF,HYBRID/SMART MODE CHARGING SELECTION,INV/UPS SELECTION					
Indication		INV ON, BATT LOW/HIGH, OVERLOAD, SPV CHARGING, Mains ON					
Alarm		Batt Low, Overload,Charger ON,INV ON					
Protection		Overload,Short Circuit Protection,Over Voltage,SPV Surge and Transient protection (MOV Varistors), Reverse Polarity of Battery,Over temperature Protection,under voltage and over voltage Protection					
Cooling		Forced Air cooling(Temp Controlled)					
Operating Temp	C	0-50					
Operating Humidity	%	95					
Protection class		IP20					