

SUN PRO SOLAR HYBRID UPS

950/12V - 5000/48V

Controlled Battery Charging





















TECHNICAL SPECIFICATION

Model	CLINIDRO OFO	SUNPRO 1200	CUNIDDO 3500	CUNDO 2000	CLINIDRO 3500	CUNDRO 4000	CUNDO FOO	
DC BUS	SUNPRO 950 12V	12V	SUNPRO 2500 24V	SUNPRO 2800 24V	SUNPRO 3500 24V	SUNPRO 4000 48V	SUNPRO 5000 48V	
BULB LOAD in WATT +/- 5%	650W	820W	1800W	2200W	2600W	3200W	4000W	
DC CURRENT SCC TYPE	56A	64A	56A	72A PWM	92A	68A	86A	
MAX PV CONNECTED IN WATT	600W	800W	1800W	2.2KW	2.5KW	3.2KW	4KW	
MAX PV CURRENT in AMP	30 A	30 A	55 A	75 A	75A	75A	75A	
Manins Input mode	,							
Mains AC low cut UPS mode Mains AC low cut recovery UPS mode				175VAC ± 10VAC 185VAC ± 10VAC				
Mains AC high cut UPS mode	265VAC ± 10VAC							
Mains AC high cut recovery UPS mode	255VAC ± 10VAC							
Mains AC low cut WUPS mode	90VAC ± 10VAC 110VAC ± 10VAC							
Mains AC low cut recovery WUPS mode Mains AC high cut WUPS mode	295VAC ± 10VAC							
Mains AC high cut recovery WUPS mode	285VAC ± 10VAC							
Input Frequency Range	40Hz to 60Hz							
Voltage Output in Mains Mode Frequency Output in Mains Mode	Same as input Same as input							
Battery								
Battery Type	LA / Tubular / SMF							
DC input voltage Battery Quantity 12V 100Ah to 220Ah	12V		24V			48V 4		
Float charging voltage	13.7V±0.2V		27.4 +/- 0.4V			54.8 +/- 0.8V		
Boost charging voltage for Tubular and SMF Battery	14.5V±0.2V		28.0V +/- 0.4V			56.0V +/- 0.8V		
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Boost charging voltage for LA Battery Battery deep Discharge Recovery	14.0V±0.2V		29.0V +/- 0.4V Yes (Independent Charger to Recover Deep Discharge Battery)			58.0V +/- 0.8V		
Battery High Cut	15.0±0.2V		31.0 +/- 0.4V			62.0 +/- 0.8V		
Charging Current 100Ah-135Ah	12A ± 1A							
Charging Current 150Ah-220Ah Backup Mode	15A ± 1A							
Output voltage	220VAC +5% -10% (untill battery low alarm)							
Output frequency	50Hz ± 0.2 Hz							
Output waveform			Pure Sine Wave ≤ 5% THD					
No Load current Low Battery Warning	10.7V±0.2V		≤ 4% of rated capacity 22V +/- 0.4V		44V +/- 0.8V			
Low Battery Cut	10.5V±0.2V		21.6 +/- 0.4V		43.2V +/- 0.8V			
Change over time UPS mode			< 10msec					
Change over time WUPS mode Crest Factor	< 25msec 1:5							
Peak Efficiency	1:5							
Protections								
Overload in backup mode				0% Load Continuousl				
Short Circut in Backup Mode Short Circut in Mains Mode	System will shutdown after 3 - retries in case of output short circuit Mains Fuse Blown							
Backfeed	IVIAITIS I U	3e blowii	System will shutdow	n in case of backfeed	and there is no retr	/		
Over tempature	Yes provided, if heatsink tempature goes above 100°C System will shut down							
Reverse Battery Phase to Phase protection in mains mode			Ve	DC fuse will belown s provided by electro				
Solar Charge Controller			Te	s provided by electro	inic			
Solar Charge Controller type	PWM type							
Efficiency	> 96%							
Mains Charging Shairing	If PV po	If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.						
Load Shairing	Load Shairing is provided, solar will deliver the power as per load and battery requirement. Solar Current = Load Current + Batter Charging							
	Current If load is 0% then it will protect the battery for over charging and increase the battery life deliver <18A current for battery charging.							
Option for Solar Mode & Normal Mode	Yes, provided, user can select Solar Mode or Normal Mode. Hense user can select to Save Maximum Power or Smart Power saving mode.							
Option for Solar Mode & Normal Mode	Solar Mode: System will run the 100% load on solar whole days (9:AM to 4:PM) and charge the battery from solar. Normal Mode: System will run the 100% load on solar during peak hours (10:AM to 3:PM) and charge the battery from solar.							
100% Solar Priority & Solar Utilization	System is utilizing 100% solar power available							
Revrse PV protection Revrse current flow to PV	Yes provided Yes provided							
Display and Alarms				res provided				
Display and Alarms	Welcome, Contect Website Address, System Capacity, Charging Till 80VAC and Deep Discharge Battery,							
LCD Initial Display	System Setting, UPS / WUPS mode, I/P range 90-295VAC / 170-265VAC, Battert Type Selected LA / SMF / Tubular, Battery Capacity Selected							
	100-135Ah / 150-200Ah,							
	Mains ON, Input Voltage, Input Frequency, Battery Voltage, Battery Charging, Battery Charged, Charging Current, Backup Mode, UPS ON, UPS							
LCD Status Display	OFF, Battery Voltage, Load %, Output Voltage, Output Frequency,							
	Mains Low Cut, Mains High Cut, Mains Not Available, Mains Frequency Cut							
LCD Fault / Protection Status Display	Mains Fuse Belown / MCB Trip, Short Circuit, Overload, Battery Low, High Tempature, Backfeed							
Buzzer	Audible beep for Overload, Short Circuit, Backfeed, Low Battery, Over Tempature, Mains Fuse belown / MCB Trip							
Safety	Addit		, 5 Circuit, Back		remparare, widii	use selowit / IVICE		
HV Test Input to Earth			Leakage curren	t <5mA when 1.5KV a	pplied for 1 min			
HV Test Output to Earth	Leakage current <5mA when 1.5KV applied for 1 min							
IR Test Input to Earth	>5MΩ between @ 500VDC							
IR Test Output to Earth Earth Leakage current in Mains mode	>5MΩ between @ 500VDC < 2.5mA							
Earth Leakage current in Backup mode	< 2.5mA							
Environment								
	0°C to 40°C							
Operating Temperature								
Operating Temperature Storage Temperature Operating Relative Humidity				0°C to 50°C 90% Non-Condensing	3			

Manufactured By: INVERTEK ENERGY SOLUTION PVT. LTD.

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