

Model	1230	1550	2050	2770	3270	3570	4070	5070	6570	
DC BUS	12V			24V						48V
SCC TYPE	PWM									
MAX PV CONNECTED IN WATT	600W / 28V	1000W / 28V	1500W / 58V	2000W / 58V	2500W / 58V	3000W / 58V	3500/110V	4000W/110V	4500W/110V	
MAX PV CURRENT in AMP	30 A	50A	50A	70A	70A	70A	70A	70A	70A	
Mains Input mode										
Mains AC low cut UPS mode	170VAC ± 10VAC									
Mains AC low cut recovery UPS mode	180VAC ± 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									
Mains AC low cut recovery WUPS mode	110VAC ± 10VAC									
Mains AC high cut WUPS mode	290VAC ± 10VAC									
Mains AC high cut recovery WUPS mode	280VAC ± 10VAC									
Input Frequency Range	40Hz to 60Hz									
Voltage Output in Mains Mode	Same as input									
Frequency Output in Mains Mode	Same as input									
Battery										
Battery Type	LA / Tubular / SMF									
DC input voltage	12V			24V			48V			
Battery Quantity 12V 100Ah to 220Ah	1			2			4			
Float charging voltage	13.7V±0.2V			27.4V +/- 0.4V			54.8V +/- 0.8V			
Boost charging voltage for Tubular and SMF Battery	14.5V±0.2V			29.0V +/- 0.4V			58.0V +/- 0.8V			
Boost charging voltage for LA Battery	14.0V±0.2V			28.0V +/- 0.4V			56.0V +/- 0.8V			
Battery deep Discharge Recovery	Yes (Independent Charger to Recover Deep Discharge Battery)									
Battery High Cut	15.0±0.2V			30.0 +/- 0.4V			60.0 +/- 0.8V			
Charging Current	Upto 20A ± 2A									
Backup Mode										
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	≤ 4% of rated capacity									
Low Battery Warning	10.7V±0.2V			21.4V +/- 0.4V			42.8V +/- 0.8V			
Low Battery Cut	10.5V±0.2V			21.0V +/- 0.4V			42.0V +/- 0.8V			
Change over time UPS mode	< 10msec									
Change over time WUPS mode	< 25msec									
Crest Factor	1 : 5									
Peak Efficiency	86%									
Protections										
Overload in backup mode	<p><100% Load Continuously run</p> <p>>100% to <120% Load, System will shut down in 2min</p> <p>>120% to <140% Load, System will shut down in 1min</p> <p>>140% to <160% Load, System will shut down in 17sec</p> <p>>160% to <180% Load, System will shut down in 6sec</p> <p>>180% to <200% Load, System will shut down in 3sec</p> <p>>200% Load, System will shut down in 850msec</p>									
Short Circuit in Backup Mode	System will shutdown after 3 - retries in case of output short circuit									
Short Circuit in Mains Mode	Mains Fuse Blown			Mains MCB Trip						
Backfeed	System will shutdown in case of backfeed and there is no retry									
Over temperature	Yes provided, if heatsink temperature goes above 100°C System will shut down									
Reverse Battery	DC fuse will belown									
Phase to Phase protection in mains mode	Yes provided by electronic									
Solar Charge Controller										
Solar Charge Controller type	PWM type									
Efficiency	> 96%									
Mains Charging Shairng	If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.									
Load Shairng	Load Shairng 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	<p>Yes, provided, user can select Solar Mode or Normal Mode. Hense user can select to Save Maximum Power or Smart Power saving mode.</p> <p>Solar Mode: System will run the 100% load on solar whole days (9:AM to 4:PM) and charge the battery from solar.</p> <p>Normal Mode: System will run the 100% load on solar during peak hours (10:AM to 3:PM) and charge the battery from solar.</p>									
100% Solar Priority & Solar Utilization	System is utilizing 100% solar power available									
Revrse PV protection	Yes provided									
Revrse current flow to PV	Yes provided									
Display and Alarms										
LCD Initial Display	Welcome, Contact Website Address, System Capacity, Charging Till 80VAC and Deep Discharge Battery, System Setting, UPS / WUPS mode, I/P range 90-295VAC / 170-265VAC, Battart Type Selected LA / SMF / Tubular, Battery Capacity Selected 100-135Ah / 150-200Ah,									
LCD Status Display	Mains ON, Input Voltage, Input Frequency, Battery Voltage, Battery Charging, Battery Charged, Charging Current, Backup Mode, UPS ON, UPS 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 Temperature, Mains Fuse belown / MCB Trip									
Safety										
HV Test Input to Earth	Leakage current <5mA when 1.5KV applied 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	>5MΩ between @ 500VDC									
Earth Leakage current in Mains mode	< 2.5mA									
Earth Leakage current in Backup mode	< 2.5mA									
Environment										
Operating Temperature	0°C to 40°C									
Storage Temperature	0°C to 50°C									
Operating Relative Humidity	90% Non-Condensing									