GLOW POWER

TECHNICAL SPECIFICATION FOR SOLAR HYBRID INVERTER WITH PWM SOLAR CHARGER							
CAPACITY/ VA			850	1050	800/1000/1400/2000	2500	4000
CAPACITY/ WATTS			630	750	600/800/1100/1600	2000	3000
Battery VDC			12	12	24	48	48
Voc			23	23	45	90	90
Vmp			18-23	18-23	36-46	72-90	72-90
SOLAR CHARGE CONTROLLER - PWM			30A	30A	30A	30A	50A
Nominal Output Voltage			220 V AC Nominal (230/240 V AC Selectable)				
User Selection Mode			UPS Mode			INVERTER Mode	
Input	Voltage Range	Acceptable Voltage Range	180-265Vac			110-290Vac	
		Low Voltage Cutoff	180±5Vac			110±10Vac	
		Low Voltage Recovery	190±5Vac			120±10Vac	
		High Voltage Cutoff	265±5Vac			290±10Vac	
		High Voltage Recovery	255±5Vac			275±10Vac	
		Frequency	50Hz Nominal (47-53Hz Range)				
Output	Voltage Regulation On Mains		Same as Mains input				
	Voltage Regulation in Battery mode		220V AC Nominal +/-2% (230/240 V AC Selectable)				
	Freq.Reg	Mains Mode	Same as Mains input				
		Battery Mode	50Hz ±0.1HZ				
	Wave Form		Pure Sine Wave				
	Efficiency		≥82%(12VDC);≥85%(24/48VDC)				
Protections	Over Load		For 100% Load - Buzzer Indication, 101% above Load Trips and Retry for 4times then Inverter shutsdown				
	Output Short Circuit		Circuit Breaker On Mains, Shutdown on Inverter				
	Battery Reverse Protection		Fuse				
	Low Battery		Load Disconnection				
	Thermal Shutdown		Below 0°C and Above 90°C				
	Lightening/Surge		Protected upto 4KV Surge				
	Solar Reverse		Blocking Diode is provided to Prevent reverse flow of current				
Shared Charging			On priority it will charge from solar only as long as it is giving sufficient current. When Solar Current drops to below set point, then shared charging is activated and to balance current it will charge from Grid.				
Priority	Grid Priority		In this Mode it will charge the battery form Solar + Grid in Sharing				
			Grid charging starts only when Solar Current is less than set value				
			It will shift to battery mode if battery is full from solar(i.e14.4VDC for 12V system)				
	Solar Priority		In this mode it will charge the Battery only from Solar				
			When Battery is completely discharged, Solar is not available then only it will connect to Grid and Shared charging is activated till the Battery is Full.				
Environmental	Operating Temperature		0-45°C				
	Relative Humidity		0-95%				
Change Over time			< 20ms				
LED Display			Mains ON(RED);Charging On Mains(RED),Charging On Solar(GREEN), Dual(YELLOW); Inverter(GREEN); Battery Low(YELLOW);Overload/Short Circuit(YELLOW)				
LCD Display			Battery Voltage; I/P Voltage; I/P Frequency; O/P Voltage; Grid Charging Current; Solar Voltage; Solar Charging Current; Solar Units Saved KWH(up to 999.9Units); Grid Priority/Solar Priority; Load %; Over Load; Battery Low; UPS/INV Mode				