GLOW POWER

TECHNICAL SPECIFICATION FOR SOLAR HYBRID INVERTER WITH MPPT SOLAR CHARGER						
CAPACITY VA			1400/2000	2500	4000	5000
CAPACITY WATTS			1000/1600	2000	3000	4000
Battery VDC			24	48	48	48
Voc			90	150	180	180
Vmp			35-69	70-125	75-140	75 - 140
MPPT Charger			30	30	50	50
Switching By			MOSFETS	MOSFETS	MOSFETS	
Nominal Output Voltage			220/230/240V AC			
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 (47-53 Hz Range)			
Output	Voltage Regulation On Mains		Same as Mains input			
	Voltage Regulation in Battery mode		220V AC Nominal +/-2%(Range 210-240V selectable)			
	Freq.Reg	Mains Mode	Same as Mains input			
		Battery Mode	50Hz ±0.1HZ			
	Wave Form		Pure Sine Wave			
	THD		≤3%			
	Efficiency		≥85%			
Protections	Over Load		For 100% Load Buzzer Indication, 101% above Load Trips and Retry for 4times then Inverter shutdown			
	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			
Battery Charging Current			Optional Battery current limit during low load on solar panel			
Shared Charging			On priority it will charge from solar only as long as it is giving sufficient current. When Solar Current is drops to below set point, then shared charging is activated and te balance current it will chagre 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 shifts 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.			
Environment	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), Duo(YELLOW); Inverter(GREEN); Battery Low(YELLOW);Overload/Short Circuit(YELLOW)			
LCD Display			Batter 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			