



TECHNICAL SPECIFICATION FOR HKVA SOLAR HYBRID INVERTER WITH MPPT SOLAR CHARGER											
CAPACITY	KVA		5	6	7.5	7.5	10	10	12.5	15	20
CAPACITY	KW		4	5	6	6	8	8	10	12.5	16
Battery	Vdc		96	96	96	120	120	240	240	240	240
	Voc		450								
Switching By	IGBT										
Nominal Output Voltage	220/230/240V AC										
User Selection Mode	INVERTER Mode										
Input	Voltage Range	Acceptable Voltage Range	110-290Vac								
		Low Voltage Cutoff	110±10Vac								
		Low Voltage Recovery	120±10Vac								
		High Voltage Cutoff	290±10Vac								
		High Voltage Recovery	275±10Vac								
		Frequency	Same as Mains input(47-53Hz)								
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								
	Power Factor		0.8								
	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		Unit inside Temperature at 90°C								
	Lightening/Surge		Protected upto 4KV Surge								
	Solar Reverse		Blocking Diode is provided to Prevent reverse flow of current								
	Current Limiting for battery Charging		Available								
Solar Charge Controller Type / Capacity			MPPT Charger / 50A								
Battery Charging Current			Optional Battery current limit during low load on solar panel								
Charging	Charging switch OFF		It will charge form solar								
	Charging switch ON		It will charge from grid when solar charging current is Low								
Environmental	Operating Ambient Temperature		-10°C to 50°C								
	Relative Humidity		0-95%								
Change Over time			< 20ms								
LED Display			Mains,Charger,Output,Fault								
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); Load %; Over Load; Battery Low; UPS/INV Mode								