

## **TECHNICAL SPECIFICATION**

	INVERTER RATING (KVA)	3.5KVA	5KVA	10KVA	
A.S	SOLAR CHARGE CONTROLLER (SCC)				
1	Charger Type & Topology		Buck Type MPPT		
2	PV Total Nominal Capacity (KVA)	ЗКШ	5KW	10KW	
3	No. of MPPT Channels	1	1	1	
4	Per Channel PV Capacity (w) (Nominal Peak)	3.5KW/3.2KW	5KW/5.5KW	10KW/11KW	
5	Max. Open Circuit PV Volts (Voc)	240	240	400	
6 7	MPPT Voltage Range (Volts)	70-240	96-300	140-400	
	PV Minimum Voltage (Volts)	24	48	120	
8	Max. I/P Amps Per Channel (Amps)	45	75	60	
9	Aax. Battery Amps during PV Charging (Amps)     70     100			80	
10	Battery type supported		/RLA / LMLA / Li-lon/Li-Ph (U		
11	Min. Battery AH (Suggested)	150	150	150	
	plar Inverter		1 Discourse of 10 million		
1	No. of Phase/Connection Type		1-Phased /2 wire		
2	Nominal battery voltage (Volts)	24	48	96	
3	Battery Ripple	5% for	VRLA & LMLA/1% for Li-Lon/Li-	Ph (User Settable)	
4	Nominal Output Voltage/Frequency (Votls/Hz)		230/50		
5	Nominal KVA Capacity ( KVA)		5KVA	10KVA	
6	Output Amps	10.43	17.39	34.78	
7	Voltage Regulations( In Standalore Mode)	10.43	17.39	34.78	
8	Freq. Regulation (in Standalore Mode)		±2%		
9	THD		±0.5Hz		
LO	Load Power Factor		<3%		
ι1	Effiancy(%) Peak/ 100% Load /25% Load		0.8 Lag to Unity		
1.2	Over Loads:		110-125% - 30 Se	c	
13	Max Allowed Phase Imbalance(%)		N/A		
14	Auto Bypass Feature		N/A Provided		
			Flovided		
_	RID CHARGER				
1	Grid Voltage Range (Voltage Sync. Range)		160V-280V (Phase to	Nutral)	
2	Grid Frequancy Range (Voltage Sync. Range)		50Hz ±5%		
3	Max Grid Import Power (KVA)	3.5KVA	5KVA	10KVA	
4	Max Battery Amps During Grid Charging (Amps)	40	68	54	
5	Peak Charging Efficiency (%)		>87		
INV	ERTER (KW)	3	4	8	
1	PV Side	Reverse Polarity, Surg Protection			
2	Battery Side	Reverse Polarity, Over/Under Voltage, Current Limit			
3	Grid Side	Over/Under Voltage, Over/Under Frequency, Anti-Islanding, Surg Protection			
4	Load Side	Overloads, Short Circuit			
5	System Protection	Over Temp	erature Trip, Breakers at all	Inputs, Emergency stop	
D. U	SER INTERFACE				
1	DISPLAY INTERFACE		LCD NUMERICAL DISPLAY		
2	DISPLAYED PARAMETERS	VRLA / LMLA/ Li-Ion/Li-Ph (User Suitable)			
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1	Battery Parameters		VRLA / LMLA/ Li-Ion/Li-Ph (l	Jser Suitable)	
_		Voltage, Charging Curre	VRLA / LMLA/ Li-Ion/Li-Ph (I ent, Discharging Current, AH-in AH-o Charging State-Charging/Di	Jser Suitable) ut, Cumulative AH-in, Cumulative AH-out, scharging	
2	PV Parameters	Voltage, Charging Curre Voltage	VRLA / LMLA/ Li-Ion/Li-Ph (I ont, Discharging Current, AH-in AH-o Charging State-Charging/Di e ,Current , Power, Cumulativ	Jser Suitable) ut, Cumulative AH-in, Cumulative AH-out, scharging e, Today Generation	
2 3	PV Parameters Grid Parameters	Voltage, Charging Curre Voltage Voltage, Current, F	VRLA / LMLA/ Li-Ion/Li-Ph (I Int, Discharging Current, AH-in AH-o Charging State-Charging/Di e ,Current , Power, Cumulativ requency, Import Power, Impo	Jser Suitable) ut, Cumulative AH-in, Cumulative AH-out, scharging e, Today Generation rt Cumulative, Today Generation	
2 3 4	PV Parameters Grid Parameters Load Parameters	Voltage, Charging Curre Voltage Voltage, Current, F Voltage, C	VRLA / LMLA/ Li-lon/Li-Ph (U nt, Discharging Current, AH-in AH-o Charging State-Charging/Di e, Current , Power, Currulativ requency, Import Power, Impo Current, Frequency, Power, Ct	Jser Suitable) It, Cumulative AH-in, Cumulative AH-out, scharging e, Today Generation rt Cumulative, Today Generation imulative, Power Factor	
2 3 4 5	PV Parameters Grid Parameters Load Parameters Data Logging	Voltage, Charging Curre Voltage Voltage, Current, F Voltage, C	VRLA / LMLA/ Li-lon/Li-Ph (I nt, Discharging Current, AH-in AH-o Charging State-Charging/Di e, Current, Power, Cumulativ requency, Import Power, Import Current, Frequency, Power, Cu ays PV Generation, Import Er	Jser Suitable) ut, Cumulative AH-in, Cumulative AH-out, scharging e, Today Generation rt Cumulative, Today Generation umulative, Power Factor tergy, Load Energy.	
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2 3 4 5 6 <b>3</b>	PV Parameters Grid Parameters Load Parameters Data Logging System Level INDICATION/ PROTECTION	Voltage, Charging Curre Voltage, Current, F Voltage, Current, F Voltage, C 90 D	VRLA / LMLA/ Li-lon/Li-Ph (U nnt, Discharging Current, AH-in AH-io Charging State-Charging/Di e, Current , Power, Cumulativ requency, Import Power, Import Current, Frequency, Power, Ct ays PV Generation, Import Er Faults and Wamir	Jser Suitable) ut, Cumulative AH-in, Cumulative AH-out, scharging e, Today Generation ort Cumulative, Today Generation umulative, Power Factor nergy, Load Energy. ngs	
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