

**TECHNICAL SPECIFICATIONS**  
**MODEL-REN M1P900096SOLAR**  
**FHUPS0574X0-7.5KVA-96V-84A MPPT GT-C SMART**

S.No	TECHNICAL PARAMETERS	SPECIFICATION
<b>A</b>	<b>BATTERY MODE</b>	
A.1	No Load Current ( Switch OFF)	≤ 250 mA
A.2	Nominal Battery Voltage	96V
A.3	Output Voltage at No LOAD	230V ± 3%
A.4	Output Frequency	50Hz ± 1Hz
A.5	Output AC Current @ Full LOAD	26.0A ± 0.5A
A.6	Discharging Current @FULL LOAD	74A ± 1 A
A.7	Fan Run @ every First Start Up/ON-OFF switch ON Time	Fan Operates Properly (Fan Runs for 3 sec only)
A.8	Harmonic distortion in O/P waveform(linear load)	≤ 3%

<b>B</b>	<b>UPS MODE</b>	
B.1	Low Cut With Phase Match	180 ± 10V
B.2	Low Cut Recovery With Phase Match	9-12V Hysterisis from > Low Cut Voltage
B.3	High Cut With Phase Match	270 ± 10V
B.4	High Cut Reovery With Phase Match	9-12V Hysterisis from < High Cut Voltage
B.5	Change Over Time From Mains to UPS	≤ 10msec
B.6	Change Over Time From UPS to Mains	≤ 10msec

<b>C</b>	<b>NORMAL MODE</b>	
C.1	Low Cut With Phase Match	100 ± 10V
C.2	Low Cut Recovery With Phase Match	9-12V Hysterisis > Low Cut Voltage
C.3	High Cut With Phase Match	290 ± 10V
C.4	High Cut Reovery With Phase Match	9-12V Hysterisis < High Cut Voltage
C.5	Change Over Time From Mains to Inverter	≤ 40msec
C.6	Change Over Time From Inverter to Mains	≤ 10msec

<b>D</b>	<b>CHARGING MODE</b>	
D.1	Low Charging Current @ 220V AC (NC)	12.0A ± 1.0A
D.2	High Charging Current @ 220V AC (HC)	16.0A ± 1.0A
D.3	Boost Charging Voltage (HC/NC)	14.4 ± 0.2V (per Battery )
D.4	Float Charging Voltage (HC/NC)	13.7 ± 0.2V (per Battery )

<b>E</b>	<b>Solar Charge Controller With Real Time Clock</b>	
E.1	Solar Charge Controller	MPPT CHARGE CONTROLLER (84A)
E.2	Charge Controller Type	SINGLE INPUT INTERLEAVED MPPT
E.3	Max PV input Power	7900-8650 Watt
E.4	Max Solar Input Voltage range ( Vmpp )	136-340V
E.5	Max Solar DC Input Voltage ( Voc )	400V
E.6	Solar Battery Charging Current (settable)	40 Amps.(default) Setable from 5 to 50 Amps for Battery
E.7	Max.Solar Input Current	30A

<b>F</b>	<b>PROTECTIONS</b>	
F.1	Over Load Protection with Alarm	Over Load Shut Down After 6 Auto Retries;
F.2	Over Load Shut Down Reset	Through ON/OFF Switch & Mains
F.3	Battery Low Alarm	10.8± 0.2V (per Battery )
F.4	Battery Low Protection	Battery Low Shut Down After 4 Auto Retries;
F.5	Battery Low Shut Down Reset	Through ON/OFF Switch , Mains or Solar
F.6	Over Temperatrure Protection With Alarm	should be OK (95 ± 5 °C);
F.7	Short Circuit @ Mains Mode	Mains MCB trip
F.8	Short Circuit Protection (Battery Mode)	yes
F.9	Short Circuit Retry (Battery Mode)	One
F.10	Short Circuit Reset	Through ON/OFF Switch & Mains
F.11	Mains MCB Trip	Functional
F.12	P.V. REVERSE PROTECTION WITH ALARM	Available

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<b>Accessible Parameters Via Operating Display</b>	
1. AC Mains Voltage	7. Warnings or Protections Status
2. O/P Load in %	i) Overload
3. Battery input Voltage	ii) Short Circuit
4. Battery Charging/ Discharging current (Bar Graph)	iii) AC MCB Trip (off and on the system after Reset MCB to reset the protection )
5. Solar KWH used	iv) Over Temperature
6. Solar Status	v) Empty 'Battery' Blinking
<b>Logic:</b>	Smart Solar Selection Logic based on built in Real Time Clock (SL-1,SL-2,SL-3,SL-4).
	Provision for Charging by Solar Power Only.
	Provision for setting Critical Parameters of Solar.
	Ability to provide rated output power directly from solar panels (if solar is available) in addition charges the battery
	Intelligently give the priority to solar power and take the balance from Mains.

Note :- Power Saver Mode Enable after 105 Minute of Battery Full Charge .

Checked By

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