TECHNICAL SPECIFICATIONS
MODEL-REN P1P250024SOLAR
FHUPS0580X0 -R.S SOLAR 2200VA-24V-50A SMART EP

SlNo	TECHNICAL PARAMETERS	SPECIFICATIONS
A	**BATTERY MODE**	
A.1	No Load Current @ Switch OFF	≤ 240 mA
A.2	Battery Voltage @ No LOAD	24V
A.3	Output Voltage @ No LOAD	225 ± 7V
A.4	Output Frequency	50 ± 1Hz
A.5	Battery Current @ Full LOAD	80 ± 1 Amp.
A.6	O/P AC Current @ Full Load	7.5 ± 0.1 Amp.
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 wavefrom(linear load)	≤ 3%
B	**UPS MODE**	
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	≤ 8msec
C	**NORMAL MODE**	
C.1	Low Cut With Phase Match	90 ± 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 UPS	≤ 20msec
C.6	Change Over Time From UPS To Mains	≤ 10msec
D	**CHARGING MODE**	
D.1	Low Charging Current @ 220V AC (NC)	15.0 ± 1.0A
D.2	High Charging Current @ 220V AC (HC)	20.0 ± 1.0A
D.3	Boost Charging Voltage (HC/NC)	28.8 ± 0.4V
D.4	Float Charging Voltage (HC/NC)	27.4 ± 0.4V
E	**Solar Charge Controller With Real Time Clock**	
E.1	Solar Charge Controller	50 Amps.
E.2	Charge Controller Type	PWM based
E.3	Max PV input Power	2050 Watt
E.4	Maximum PV (Voc)	50V
E.5	Solar Input Voltage range (Vmpp)	30-42 V
E.6	Solar Battery Charging Current (settable)	40 Amps.(default)
F	**PROTECTIONS**	
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 or Mains
F.3	Battery Low Alarm	10.8± 0.2V(Per Battery)

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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	should be OK(95 ± 5 °C);
F.7	Short Circuit Protection (Battery Mode)	Should be functional
F.8	Short Circuit Retry (Battery Mode)	One
F.9	Short Circuit Reset (Battery Mode)	Through ON/OFF Switch or Mains
F.10	Mains Fuse Trip	Should be functional
F.11	P.V. Reverse Protection with alarm	Available

Accessible Parameters Via Operating Display	
1. AC Mains voltage	7. Faults Status
2. O/P Load in %	i) Overload
3. Battery input voltage	ii) Short Circuit
4. Battery Charging/ Discharging current (Bar Graph)	iii) Fuse Trip (OFF and ON the System after reset the resetable switch to reset the protection)
5. Solar KWH used	iv) Over Temp.
6. Solar Status	v) Empty 'Battery' Blinking
	vi) PV Reverse

Logic:	Smart Solar Selection Logic based on built in Real Time Clock (SL-1,SL-2,SL-3).
	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 .