

AFRIIPOWER PRO	ODUCT SPECIFICATIONS
2.5KVA/24V MPPT Based Solar Inverter MAINS INPUT MODE	
Mains AC low cut recovery UPS mode	185VAC ± 10VAC
Mains AC high cut UPS mode Mains AC high cut recovery UPS mode	265VAC ± 10VAC 255VAC ± 10VAC
Mains AC low cut WUPS mode	90VAC ± 10VAC
Mains AC low cut recovery W.UPS mode	110VAC ± 10VAC
Mains AC high cut WUPS mode	295VAC ± 10VAC
Mains AC high cut recovery W.UPS mode	285VAC ± 10VAC
Input Frequency Range	48HZ to 55HZ
Charging Current By Grid	15±1Amp.
Voltage Output in Mains Mode	Same as input
Frequency Output in Mains Mode	Same as input
	BATTERY
Battery Type	LA / Tubular / SMF 24V
DC input voltage	24V
Battery Quantity 12V 100Ah to 220Ah Float charging voltage	27.4V±0.2V
Boost charging voltage for LA Battery	27.4V±0.2V 28V±0.2V
Boost charging voltage for Tubular and SMF Battery	29V±0.2V
Bulk Absorbtion Battery Voltage	29.6V±0.2V
Battery deep Discharge Recovery	Yes (Independent Charger to Recover Deep Discharge Battery)
	ACKUP MODE
Output voltage	220VAC +5% -10% (until battery low alarm)
Output voltage Output frequency	50Hz ± 0.2 Hz
Output waveform	Pure Sine Wave ≤ 5% THD
No Load current	1.5Amp.
Capacity	2500VA
Capacity Resistive Bulb Load	1800watt
Discharging current @ full load	72A ± 2A
Low Battery Warning	21.6V±0.2V
Low Battery Cut	21.2V±0.2V
Change over time UPS mode	< 10msec
Change over time WUPS mode	< 25msec
Switching Element Cooling	MOSFET Temp. Controlled Fan
	PROTECTIONS
Overload in backup mode	\$ 100% Load Continuously run. >100% to <120% Load, System will shut down in 3 min. >120% to <140% Load, System will shut down in 1 min. >140% to <160% Load, System will shut down in 17sec. >160% to <180% Load, System will shut down in 6sec. >180% to <200% Load, System will shut down in 3sec.
	>200% Load, System will show short circuit.
Short Circuit in Backup Mode	System will shut down after 3 - retries in case of output short circuit
Short Circuit in Mains Mode	Mains MCB Trip
Backfeed	System will shutdown in case of backfeed and there is no retry
Over temperature	Yes provided, if heat sink temperature goes above 100°C System will shut down
Reverse Battery	DC fuse will burn
Phase to Phase protection in mains mode	
·	Yes provided
SOLAR C	CHARGE CONTROLLER
Solar Charge Controller type	MPPT
Maxi Panel wattage can be connected	1500 WATT
Maximum PV Voltage	85V
Maximum Battery current	50Amp.
Reverse PV protection	Yes provided, it will also display on LCD panel
Switches Reverse current flow to PV	Menu(Select),up,Down,Esc. Yes provided
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Sharing of current when PV and Grid Both are available	If PV power is not sufficient enough to charge the battery, system will start sharin battery charging from PV and grid.
DISPI	LAY AND ALARMS
LCD Initial Display	Welcome, System Capacity, Charging Till 90VAC and Deep Discharge Battery, System Setting, UPS / WUPS mode, VP range 90-295VAC / 170-265VAC, Battert Ty Selected LA / SMF / Tubular, DOD.
LCD Status Display	Mains ON, Input Voltage, Input Frequency, Battery Voltage, Battery Charging, Batter Charged, Charging Current, Backup Mode, UPS ON, UPS OFF, Battery Voltage, Load Output Voltage, Output Frequency, Battery Current, PV Current, PV Voltage, Mains Low Cut, Mains High Cut, Mains Not Available, Mains Frequency Cut
LCD Fault / Protection Status Display	Mains Fuse Belown / MCB Trip, Short Circuit, Overload, Battery Low, High Tempatu Backfeed
Buzzer	Mains Fuse Belown / MCB Trip, Short Circuit, Overload, Battery Low, High Tempat. Backfeed