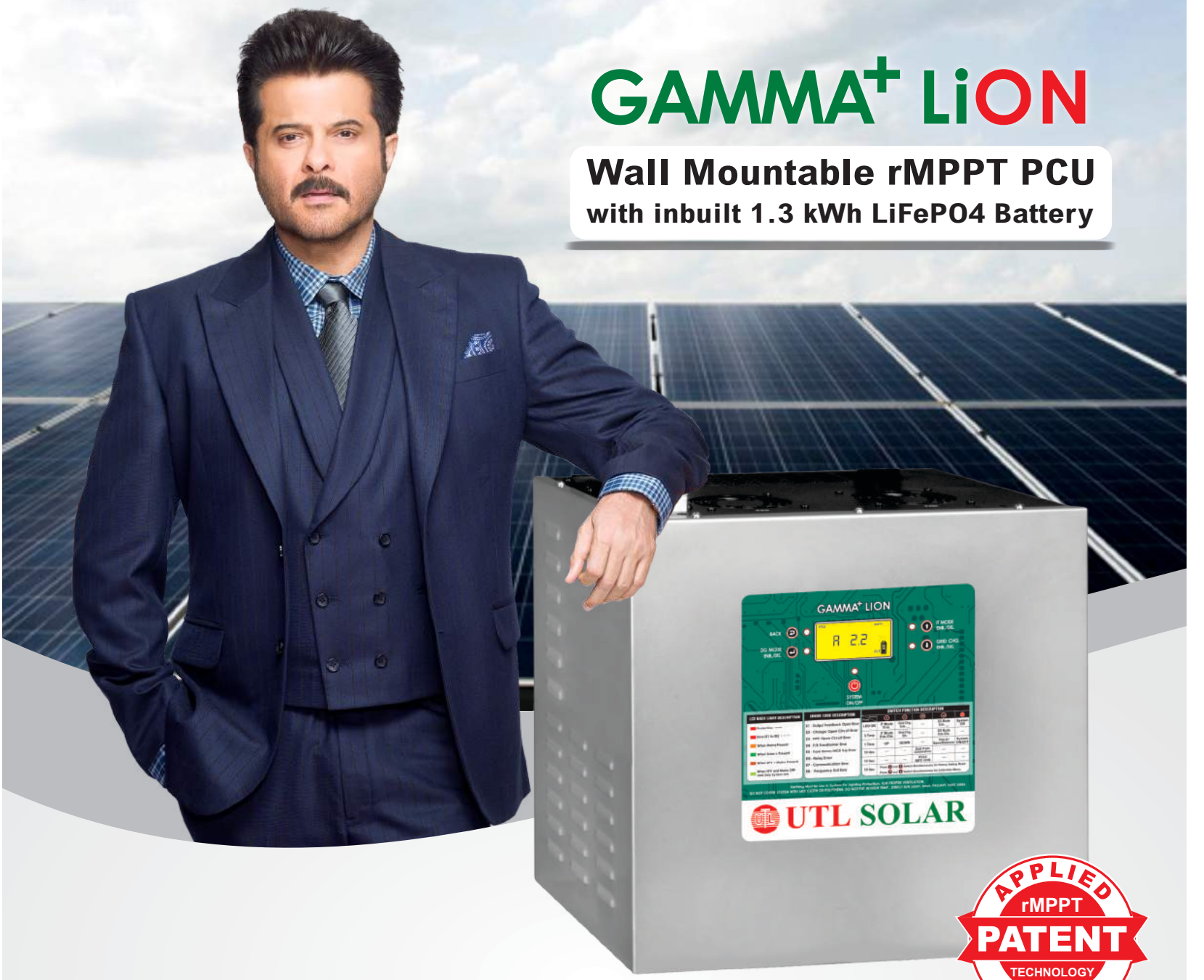
UTL SOLAR

No. 1 PCU from 10 Years

No.1 SOLAR PCU from 10 YEARs



GAMMA+ LiON

Wall Mountable rMPPT PCU
with inbuilt 1.3 kWh LiFePO4 Battery

APPLIED rMPPT PATENT TECHNOLOGY APPLIED

FEATURES

- Controller based design, Sine Wave, Built in rMPPT Charge Controller.
- Multi-colour LCD Display.
- Preference to Solar Power over Grid Power.
- Zero battery maintenance & Long battery life.
- Multi functional smart switches
- Priority Selection - PCU, Smart & Hybrid for Saving Energy & Money.

ISO 9001 : 2015 ISO 14001 : 2015 CE

TECHNICAL SPECIFICATION

Parameters		Rating	
Model No.		GAMMA+ LION	
System Capacity		1KVA /700Watt	
Operating DC Voltage		12.8V	
Switching Element		MOSFET	
Charger Topology		Boost MOSFET	
Battery Type		Prismatic (Li-ion)	
Battery Capacity		100AH	
Operating Mode	SMT/PCU/HYB	SMT (Default)	
Optional DG mode	Enable/Disable	Disable (Default)	
Parameters		**Default Value**	**Settable value**
Boost Charging Voltage	Grid	14V ± 0.1V	13.5V-14.2V
	Solar	14.2V ± 0.1V	14V - 14.5V
Float Charging Voltage	Grid	13.9V ± 0.1V	13.4V- 14.1V
	Solar	14.1V ± 0.1V	13.9V - 14.4V
Charging Current	Grid	15A ± 0.5A	5A-15A
	Solar	20A ± 0.5A	11A - 40A
Battery Charging Method		Bulk/Absorption/Float	
Parameters (Grid)			
Nominal Grid Voltage		230V 1ø	
Nominal Frequency		50Hz	47-53Hz ± 1Hz
Grid Charging	Enable/Disable	Enable	
Grid Disconnect @ (Grid+Solar)		100% of Charging Current or Voltage from Solar	
Grid Reconnect @ Battery Voltage (Grid+Solar)		12.4V	11V - 13V
Low Cut Voltage/ Recovery	IT Mode Enable	170/180V ± 3V	
High Cut Voltage/Recovery		265/255V ± 3V	
Low Cut Voltage/ Recovery	IT Mode Disable	100/110V ± 3V	
High Cut Voltage/Recovery		290/280V ± 3V	
Change Over(Battery to Mains)	IT Mode Enable/Disable	<6 ms	
Change Over(Mains to Battery)	IT Mode Enable	<12 ms	
	IT Mode Disable	<30 ms	
Parameters (Inverter)			
Output Phase		1ø	
Nominal Output Voltage		220V ± 5%	
Nominal Frequency		50 Hz ± 1 Hz	
Rated output Amp		3A ± 0.2A	
Battery Low Cut		11.6V	10V - 12.5V
Battery Low Buzzer		11.8V	
Battery Low Cut Recovery		12.7V or Grid present	
Battery High Cut (Grid/Solar CHG. OFF)		14.5V	
Battery High Cut Recovery		14.2V	
Output Waveform		Sine Wave	
Typical Efficency		>80%	
Voltage Harmonic		<3%(Linear Load)	
Over Load Capacity	IT Mode Disable	>100% After 30 Sec Delay, 3 Times Auto Reset, 4Th Time Shut Down	
	IT Mode Enable	>100% After 30 Sec Delay, 1st Time Shut Down	
		>150% Output Goes Down	
Protection		Overload, Battery Low, Battery High, Output Short Ckt, Battery	
LED Indication		System ON, (IT mode, Grid Chg., DG mode,) Enable/Disable	
Switches		Reset for System ON/OFF, UP, Down, Back, Enter (For LCD Calibration)	
Display (Multi Color)		Battery Voltage, Charging Current, Grid Voltage, Grid Frequency,	
Parameters (Solar)			
Type of Charger		MPPT	
Efficiency		>94%	
Input Voltage Range (Voc)		15V- 45V	
Maximum PV Power Recommended		1000W	
Parameters (Environment)			
Operating Temperature		0-50°C	
Cooling		Fan	
Max. Relative Humidity @ 25*C (Non Condensing)		95%	
Noise @ 1meter		50dB	
Standard Compliance		IP20	
Dimension (LXWXH)mm		(340 x 240 x 320) mm	

Specification are subject to change without prior notice due to constant improvement in design & technology.

FUJIYAMA POWER SYSTEMS PVT. LTD.
53A/6, Rama Road Ind. Area, Near Sat Guru Ram Singh Marg Metro Station, Near NDPL Grid Office, Delhi - 110015.
For Sales: +91 9250 885 885, **For Service:** +91 8510 885 885 **E-mail:** service@utlups.com, **Website:** www.upsINVERTER.com
Manufacturing Unit
Unit 1 : Village Naryal, Near Sec-4 Barrier, Parwanoo, H.P.- 173220
Unit 2 : Plot No.51-52, Sector- Ecotech 1 Extension 1, Greater Noida,Distt Gautam Budh Nagar, U.P.- 201 310