

MPPT SOLAR PCU

1 KVA-3.6KVA

DSP Technology



0.4A

No Load Current



99.9%

MPPT Efficiency



**Inbuilt Lightning
Protection Device ***

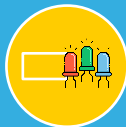
Features:



**Pure
Sinewave**



**Tubular/SMF
Battery**



**Dual
Display**



**Fast
Charging**



**Heavy
Duty**



**Input & Solar
MCB**

Applications:



Small Home



Small Shop



Air Conditioner



RO Water Filter



Single Door Refrigerator

Features

- > DSP based Pure Sinewave Solar PCU with inbuilt MPPT
- > 0.4mA no load current in DC-AC conversion mode
- > 99.9% MPPT efficiency
- > Dual display LCD and LED for multi information
- > Operates on Solar + Grid or Only Solar or Only Grid
- > Noiseless operation
- > Dual Fan for cooling
- > 24 months warranty

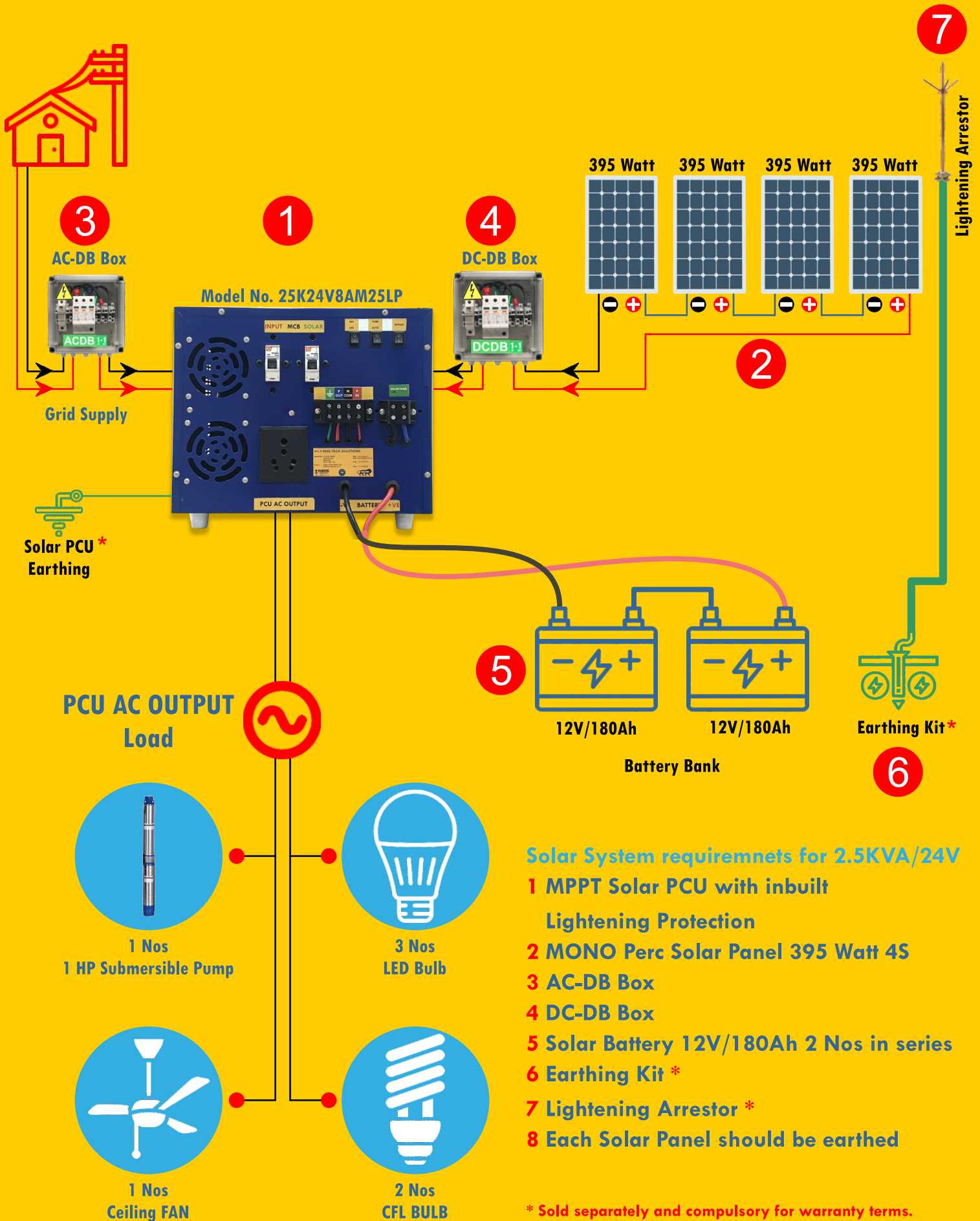


Technical Specifications

Parameters	Units	Rating			
Model No.		1K12V3AM12	25K24V7AM15	25K24V8AM25	36K48V9AM36
System Rating	KVA	1	2.5		3.6
Operating DC Voltage	V	12	24		48
Solar Panel Input					
Input Voltage Range (Min.-Max.)	Voc	47V-150V		47V-200V	
Maximum PV Power	kW	1.2	1.5	2.5	3.6
Solar Charge Controller					
Controller		DSP			
Type of Charger		MPPT			
Peak Efficiency		99.9%			
Charge Current	A	50			
Inverter Mode					
Switching Element		MOSFET			
Control		PWM			
Output Voltage at Nominal DC	V	220V ± 2%			
Output Supply Phase		Single Phase			
Output Waveform		Pure Sinewave			
Output Frequency	Hz	50Hz ± 0.5%			
No Load Current	A	0.4			
Load Current	A	3	7	8	9
Peak Efficiency	%	>85			
Output Voltage Distortion	%	<2 @ 100% Load			
Protections		Overload, Short Circuit, Battery & PV Reverse Polarity Battery Over/Under Voltage, Battery Current Limit Mains Over / Under Voltage Grid/Load/PV Surge Protection /Lightening Protection			
LCD Display Parameters		Battery Voltage & Current / Mains Voltage & Frequency PV Power, Total Generation & Today's Generation / Load Voltage, Current & Frequency (Inv. Mode Only) Load Power, Battery Charging / Discharging Status			
Environmental Parameters					
Operating Temperature	°C	0~50°C			
Relative Humidity	%	5%-95% (non-Condensable)			
Dimensions (L x W x H)	mm	325 x 320 x 320			
Weight	Kg				
Gross Weight	Kg				
Country Of Origin		India			

Typical Wiring Diagram

2.5KVA/24V

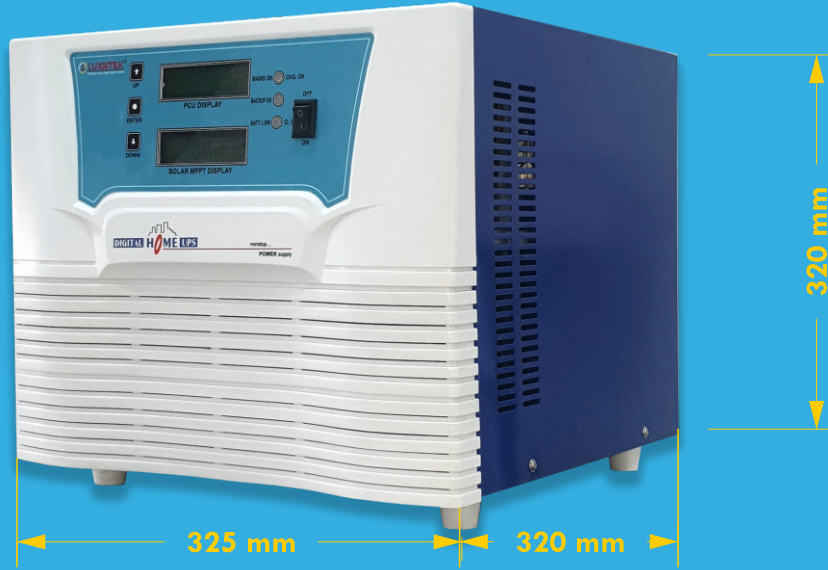


- Solar System requirements for 2.5KVA/24V**
- 1 MPPT Solar PCU with inbuilt Lightning Protection
 - 2 MONO Perc Solar Panel 395 Watt 4S
 - 3 AC-DB Box
 - 4 DC-DB Box
 - 5 Solar Battery 12V/180Ah 2 Nos in series
 - 6 Earthing Kit *
 - 7 Lightning Arrester *
 - 8 Each Solar Panel should be earthed

* Sold separately and compulsory for warranty terms.

* In select model only

Dimensions:



Load Chart

Appliances/Electronics	Units	Rating					
		1		2.5		3.6	
System Rating	KVA						
Operating DC Voltage	V	12		24		48	
		Option 1	Option 2	Option 1	Option 2	Option 1	Option 2
LED TV	40"	1	0	2	0	1	0
PC LCD/TFT Monitor		0	1	0	0	0	0
CFL	14W/15W	2	2	10	2	3	0
LED Bulb	9W	2	2	0	3	3	4
Tube light	36W	3	2	4	0	2	0
Fans	80W	2	2	4	1	2	1
Fridge	165 Litre	0	0	0	0	1	0
AC	1.5 Tonne	0	0	0	0	0	1
Cooler		0	0	0	0	1	0
RO Water Filter		1	1	1	1	1	1
Submersible PUMP	1 HP	0	0	0	1	1	0

Solar Products Range

- > Solar Panel
- > MPPT Charge Controller
- > Solar Battery
- > AC-DB/DC-DB Box
- > Lightening Arrestor
- > Earthing Kit



Dealer Stamp & Sign

NISE-TECH SOLUTIONS

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Deoghar | Jharkhand-814112 (India)

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