

SOLAR PCU SPECIFICATION 48V 3000VA T-S3000



PREMIUM FEATURES

Unmatched Power

- 3000VA/2400W of clean, stable power
- Pure sine wave output (16 Bit DSP control)
- MOSFET switching technology
- Perfect for homes and offices

Solar & Battery Management

- Maximum solar input: 200 VDC
- Maximum PV power: 2000 Wpk
- Maximum MPPT output current: 40 Amp
- 48V nominal battery voltage
- CCCV charging mechanism
- Low battery indication at 45 VDC
- Low battery shutdown at 42 VDC
- Mains disconnect at 53.25V (after absorption charge stage)
- Mains reconnect at 50V

Smart Protection

- Advanced overload protection with timed responses:
 - 100% to 125% - System trip in 2 Minutes
 - 125% to 150% - System trip in 30 Seconds
 - 150% to 175% - System trip in 15 Seconds
 - Above 175% - System trip in 5 Seconds
- Output short circuit protection (FUSE/Software)
- Battery short circuit protection (FUSE)
- Battery surge overvoltage protection

User-Friendly Design

- Easy-to-read LCD display showing:
 - Battery voltage, Mains voltage, Inverter voltage
 - Load percentage, Charging current
 - Battery low warning, Overload warning
- Efficient cooling system (Heat sink/Cooling fan)
- Quick transfer time (12ms)
- Password protection with 3 different levels
- Compact design (approx. 32 kg)



HEAD OFFICE:

Admiral Energy
8 - The Green, Dover, DE 19901



REGIONAL HEAD OFFICE:

Admiral Energy
4105 Platinum Tower, Cluster I, Jumeirah Lake
Towers, Dubai, UAE.

MODEL	T-S3000
Capacity VA/WATTS	3000VA/2400W
PHOTOVOLTAIC	
Maximum Solar Input(VOC)	200 VDC
Maximum PV Power	2500 Wpk
Maximum MPPT Output Current	40 Amp
Mains Disconnect Volt *	53.25 V
Mains Re-connect Volt *	48.75 V
INVERTER PARAMETERS	
Switching Element	MOSFET
Control	16 Bit DSP
Waveform Type	Pure Sinewave
Nominal O/P Frequency	50Hz
Nominal O/P Voltage *	220VAC
Output Supply Phase	1 Phase
Overload	at 90% load
Nominal O/P Current	10.9A
Typical Transfer Time	12ms
Overload at Lower Voltage for 2 Min	100% -125%
Overload at Lower Voltage for 30 Sec	125% - 150%
Overload at Lower Voltage for 15 Sec	150% - 175%
Overload at Lower Voltage for 5 Sec	Above 175%
BATTERY	
Nominal Voltage	48VDC
Charging Mechanism	CCCV
PROTECTIONS	
Low Battery Indication *	45VDC
Low Battery Shut down *	42VDC
Output Short Circuit	FUSE/Software
Battery Short Circuit	FUSE
Battery Surge Overvoltage	Protected
LCD PARAMETERS	
Battery Voltage, Mains Voltage, Inverter Voltage, Load(in percentage)Mains Charging Current (A), Battery Low Warning, Over load warning.	
OTHERS	
Load transfer switch	RELAY
Display/Indications	LCD/LED
Thermal Management	Heat sink/Cooling fan
Weight Approx	32 kg

*PARAMETER VALUES CAN BE CUSTOMISED

OTHER FEATURES:

Alteration of system parameters are restricted using Password . Three different Passwords for Manufacturer,Dealer and Customer Quick response to system errors such as Overload,Heavy load,Surgeload,Short circuit,High temperature,Battery low, Battery high etc..