

SOLAR PCU SPECIFICATION 72V 5000VA T-S5000



PREMIUM FEATURES

Unmatched Power

- 5000VA/4000W 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: 240 VDC
- Maximum PV power: 5000 Wpk
- Maximum MPPT output current: 40 Amp
- 73.6V nominal battery voltage
- CCCV charging mechanism
- Low battery indication at 66.0 VDC
- Low battery shutdown at 63.0 VDC
- Mains disconnect at 82V (after absorption charge stage)
- Mains reconnect at 74V

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
- Robust construction (40 kg, 47x25x40 cm)



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-S5000 |
|---|-----------------------|
| Capacity VA/WATTS | 5000VA/4000W |
| PHOTOVOLTAIC | |
| Maximum Solar Input(VOC) | 240 VDC |
| Maximum PV Power | 5000 Wpk |
| Maximum MPPT Output Current | 40 Amp |
| Mains Disconnect Volt * | 82 V |
| Mains Re-connect Volt * | 74.5 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 | 18.1A |
| 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 | 73.6VDC |
| Charging Mechanism | CCCV |
| PROTECTIONS | |
| Low Battery Indication * | 69VDC |
| Low Battery Shut down * | 65.4VDC |
| 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 | 40 kg |
| SIZE- L X W X H | 47X25X40 CM |

*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..