



Go Solar
Tru-Solar by Truepower



Solar PCU Technical Specification



Model	TPS 1600	TPS 2000	TPS 2500	TPS 3000
I/P Range (Normal Mode)	100V-285V $\pm$ 10V			
I/P Range (UPS Mode)	180V-265V $\pm$ 5V			
O/P Voltage Battery Mode	220V $\pm$ 10V			
O/P Frequency Battery Mode	50HZ $\pm$ 0.5HZ			
O/P Waveform Battery Mode	Sine Wave			
Low Battery Alarm	21.6V $\pm$ 0.2V			
Low Battery Shutdown	21V $\pm$ 0.2V			
Running Load	47A $\pm$ 2A	60A $\pm$ 2A	78A $\pm$ 2A	90A $\pm$ 2A
Overload	50A $\pm$ 2A	63A $\pm$ 2A	80A $\pm$ 2A	94A $\pm$ 2A
DC Voltage	24V			
Charging Current	15A $\pm$ 1A			
Charging Cut off	29.2V/28.0V $\pm$ 0.2V			
No Load Current	<2.5A			<3A
Efficiency	>85%			
Battery Recommended	135AH-300AH			



Model	TPS 700	TPS 900	TPS 1100	TPS 1350	TPS 1500
I/P Range (Normal Mode)	100V-285V ± 10V				
I/P Range (UPS Mode)	180V-265V ± 5V				
O/P Voltage Battery Mode	220V ± 10V				
O/P Frequency Battery Mode	50Hz ± 0.5Hz				
O/P Waveform Battery Mode	Sine Wave				
Low Battery Alarm	10.8V ± 0.2V				
Low Battery Shutdown	10.5V ± 0.2V				
Running Load	44A±2A	50A±2A	60A±2A	85A±2A	90A±2A
Overload	47A±2A	53A±2A	63A±2A	90A±2A	95A±2A
DC Voltage	12V				
Charging Current	15A±1A			20A±1A	
Charging Cut off	14.6V/14.0V ± 0.2V				
No Load Current	<2.5A				
Efficiency	>85%				
Battery Recommended	135AH-300AH				



Model	TPS 3500/48V	TPS 5000/48V	TPS 5000/96V
I/P Range (Normal Mode)	100V-285V ± 10V		
I/P Range (UPS Mode)	180V-265V ± 5V		
O/P Voltage Battery Mode	220V ± 10V		
O/P Frequency Battery Mode	50HZ ± 0.5HZ		
O/P Waveform Battery Mode	Sine Wave		
Low Battery Alarm	43.2V± 0.2V		86.4V± 0.2V
Low Battery Shutdown	42V ± 0.2V		84V ± 0.2V
Running Load	58A± 2A	75A±2A	44A±2A
Overload	62A± 2A	78A±2A	47A±2A
DC Voltage	48V		96V
Charging Current	15A±1A		
Charging Cut off	58.4V/56.0V ± 0.2V		116V/112V± 0.2V
No Load Current	<2.5A		
Efficiency	>85%		
Battery Recommended	135AH-300AH		

SALIENT FEATURES

- Next-GEN Tru-Solar Hybrid PCU incorporates DSP based technology
- 40/50 Amp built-in PWM solar charge controller
- Maximum utilization of solar energy through smart solar PCU functionality
- Double (DSP & MICRO) controller design for better reliability & less wiring
- Solar PV reverse connection protection
- Smart battery charging with priority to solar
- Multiple, Multi level inbuilt over current & over voltage protections
- PTH pcb for easy service ability

Solar PCU Technical Specification



Model	TPS 7.5 KVA/120V
I/P Range (Normal Mode)	100V-285V $\pm$ 10V
I/P Range (UPS Mode)	180V-265V $\pm$ 5V
O/P Voltage Battery Mode	220V $\pm$ 10V
O/P Frequency Battery Mode	50HZ $\pm$ 0.5HZ
O/P Waveform Battery Mode	Sine Wave
Low Battery Alarm	108V $\pm$ 0.2V
Low Battery Shutdown	105V $\pm$ 0.2V
Running Load	48A $\pm$ 2A
Overload	50A $\pm$ 2A
DC Voltage	120V
Charging Current	15A $\pm$ 1A
Charging Cut off	145V/140V $\pm$ 0.2V
No Load Current	<2.5A
Efficiency	>85%
Battery Recommended	135AH-300AH

Model	TPS 10 KVA - 120V	TPS 10 KVA - 180V
I/P Range (Normal Mode)	100V-285V $\pm$ 10V	
I/P Range (UPS Mode)	180V-265V $\pm$ 5V	
O/P Voltage Battery Mode	220V $\pm$ 10V	
O/P Frequency Battery Mode	50HZ $\pm$ 0.5HZ	
O/P Waveform Battery Mode	Sine Wave	
Low Battery Alarm	108V $\pm$ 0.2V	162V $\pm$ 0.2V
Low Battery Shutdown	105V $\pm$ 0.2V	157.5V $\pm$ 0.2V
Running Load	62A $\pm$ 2A	45A $\pm$ 2A
Overload	65A $\pm$ 2A	48A $\pm$ 2A
DC Voltage	120V	180V
Charging Current	15A $\pm$ 1A	
Charging Cut off	145V/140V $\pm$ 0.2V	217.5V/210V $\pm$ 0.2V
No Load Current	<2.5A	
Efficiency	>85%	
Battery Recommended	135AH-300AH	



**FASTER
CHARGING**



PROTECTION



**LATEST 5TH
GENERATION SEMI
CONDUCTOR
TECHNOLOGY**



**ADVANCED
SINE WAVE
TECHNOLOGY**

SOLAR CHARGE CONTROLLER

Technology	DSP based intelligent battery charging & charge sharing with Mains
Charge Controller Type	PWM / MPPT Based
Peak Solar PV Current	40/50 Amps
Solar Battery Charging Current	40 Amps
Solar Low Cut off Voltage	11V to 11.6V (Depends on load current)
PV Reverse Polarity Protection	Available
Reverse Current flow to PV Protection	Available

APPLICATION:

Inverter / UPS System / Online UPS Systems / Computer Backup / Education Institutions / Laboratories /
Cyber Café / STD / EPABX / Hospital & Medical Equipments / Hotels & Restaurants / Solar Power Plant & Wind Power

SALIENT FEATURES

- Cuts down grid electricity consumption, maximum grid power saving
- Longer backup as solar panel & battery both supports the load
- Increased battery life as solar panel produces pure DC power
- Solar panel 100 W to 800 W (12V) & 200 W - 1600 W (24V)
- Battery over voltage protection
- Multicolor user friendly interactive LCD display system
- GPM gravity profile management for better battery performance
- Advance pure sine wave technology

TUBULAR BATTERY 200AH



Model- IT 200

Capacity	200 AH
Length	500
Width	185
Height	420
Charging Current (A)	12-18
Weight with Acid (kg)	62-63



HIGH EFFICIENCY



EXCELLENT PSOC PERFORMANCE



LONGER LIFE



LOW MAINTENANCE
99.99% PURE LEAD

TUBULAR BATTERY 250AH



Model- IT 250

Capacity	250 AH
Length	500
Width	185
Height	420
Charging Current (A)	15-18
Weight with Acid (kg)	67-68

SALIENT FEATURE

- Ultra low maintenance and less topping-up
- PE separator - low electrical resistance, minimal self discharging & high porosity
- Cell partition welded with short electrical path for low internal resistance
- 99.9% - 99.99% Pure lead
- Full capacity / True AH output
- 100% factory charged battery
- Low self discharge
- Heavy duty terminals
- Ceramic water level
- Excellent Partial State of Charge (PSOC) performance
- Hi-efficiency grid design made of Selenium / low Antimony alloy with grain refiners for low water loss, least corrosion long life management system with micro porous vent plugs for least environmental pollution
- Rugged anti- corrosive additive for longer battery life
- Computerized formation - for uniform quality and peak performance
- Container made of PP Co-polymer for strength & robustness
- More ribs on container for better strength
- Batteries are designed to operate in partial charged conditions even in the non sunny days

Battery Manufacturing Unit



TRUEPOWER AT A GLANCE

- It/power business since 1993
- Promoted by qualified professionals
- Equipped with latest state-of-the-art machinery in plants
- World class best quality products
- Big name in Export (electronic industries)
- On time delivery commitment
- Well qualified team
- Fastest growing solar inverter & solar battery company.

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DESCRIPTION OF LCD COLOURS



GREEN

GREEN COLOUR SHOW'S MAINS IS AVAILABLE



ORANGE

ORANGE COLOUR SHOW'S BACK UP MODE



BLUE

BLUE COLOUR SHOW'S SYSTEM IN PCU(SOLAR) MODE



PINK

PINK COLOUR SHOW'S FAULT OR ANY PROBLEM IN SYSTEM

There are four colour LCD display new technology in our product solar inverter.

Every LCD colour show different mode.

Description of LCD colours mode.

1 Green colour show main is available

2 Orange Colour show 'Backup Mode'

3 Light Blue Colour show system is PCU (Solar) Mode

4 Pink Colour show Fault or any problems in inverter for example

(a) Over Load

(b) Battery Low

(c) Fuse/MCB Trip

(d) Short Circuit

(e) Thermal Protection

(f) PV Reverse