ACE ZIPTECH
ZIP TECHNOLOGIES

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Pure Sinewave

intelligent....

SOLAR
HYBRID **UPS**

Power
Conditioning
Unit

• Pure Sinewave

• Advanced DSP Technology

• Save on Electricity Bills

Available from 650 VA to 5 KVA in wide voltage range

ACE ZIPTECH SOLAR PCU

ACE ZIPTECH SOLAR PCU is the most advanced solar UPS that works on DSP Hi-Tech Technology. It is equipped to provide 100% sine wave power to multiple heavy duty appliances simultaneously. ACE ZIPTECH SOLAR PCU can provide power to connected loads by utilizing PV power, utility power & battery power. When PV power energy output is good, it will power connected loads from solar photovoltaic or PV power & charge battery. When PV energy output is not sufficient for connected load, this PCU will take power from battery. Depending on different power situation this hybrid PCU is designed to generate continuous power from PV solar modules, battery and the utility grid.

FEATURES & BENEFITS

• Built-in PWM charge controller.

• Multi-Processor Advanced DSP based design.

• Maximum preference to solar power.

• High efficient Bi-directional inverter.

• Pure Sinewave Regulated AC.

• Robust design 20 years design life.

• Works as Normal UPS until solar module connection.

• Compliance to international standard.

• LCD display (messages/faults)

Technical Specification for DSP Solar Hybrid PCU				
Model	AZ-SOL 650VA/850VA/1000VA	AZ-SOL 1000VA/1500VA/2000VA	AZ-SOL 3000VA	AZ-SOL 4000VA/5000VA
INPUT				
Input Voltage (UPS Mode)	180V to 260V	180V to 260V	180V to 260V	180V to 260V
Input Voltage (INV Mode)	90V to 280V	90V to 280V	90V to 280V	90V to 280V
Battery Voltage	12V	24V	36V	48V
OUTPUT				
Output Voltage (Mains Mode)	Same as input	Same as input	Same as input	Same as input
Output Voltage (INV Mode)	230±5%	230±5%	230±5%	230±5%
Output Frequency (INV Mode)	50Hz±1Hz	50Hz±1Hz	50Hz±1Hz	50Hz±1Hz
Output Waveform (Mains Mode)	Same as input	Same as input	Same as input	Same as input
Output Waveform (INV Mode)	Pure Sine Wave	Pure Sine Wave	Pure Sine Wave	Pure Sine Wave
Battery Charging Current	Constant charging approx. 6% of the battery current in AH	Constant charging approx. 6% of the battery current in AH	Constant charging approx. 6% of the battery current in AH	Constant charging approx. 6% of the battery current in AH
Charging Technology	Power Factor Controlled Boost Technology	Power Factor Controlled Boost Technology	Power Factor Controlled Boost Technology	Power Factor Controlled Boost Technology
Switching from mains to inverter & from inverter to mains	Automatic	Automatic	Automatic	Automatic
Switching from mains to UPS & from UPS to mains	Automatic	Automatic	Automatic	Automatic
Technology	DSP Based Design	DSP Based Design	DSP Based Design	DSP Based Design
Efficiency	>85%	>85%	>85%	>85%
PROTECTIONS				
Overload Protection	120%	120%	120%	120%
Short Circuit Protection	300%	300%	300%	300%
Battery Higher Cut-off Voltage (Adjustable)	13.5V-14.5V	27V-29V	42V	58.5V
Battery Higher Cut-off Voltage (Adjustable)	10.5V	22.5V	34.5V	46.5V
INDICATIONS				
LCD Panel	LCD Panel indicating Battery Voltage, Charging Current, Mains On, Input Voltage, LOAD ON(percentage), Overload, Short Circuit, Solar Circuit, Solar Charging ON			
SPECIFICATIONS				
Solar Charging Current	20A	20A to 40A	40A	60A
Battery Full Voltage Cut-Off	14.5A	28.5A	42.5A	55.2A
PV Panel Vol Max	23V	45V	68V	92V