

TECHNICAL SPECIFICATIONS OF SINGLE PHASE & THREE PHASE SOLAR POWER CONDITIONING UNIT (PCU)			
INPUT		Single Phase	Three Phase
Voltage		230 V AC	415 V AC
Voltage Range		160-280 V AC	330 – 470 V ACDC
		DC source from Solar modules/Batteries	DC source from Solar modules/Batteries
Frequency		50 Hz \pm 6% (47-53 Hz)	
Battery Type		216/12 Volts SMF or Tubular Battery, AH & Nos. of Battery depends on connected load and back-up time.	

OUTPUT		Single Phase	Three Phase
Voltage		230 V AC \pm 1%	400/415 V AC \pm 1%
Frequency		50 Hz \pm 0.2% Free running mode	
Power Factor		0.8 lagging to unity	
Over load capacity		120%/110% for 10 min, 150%/125% for 10 sec, 200% for half cycle	
Wave Form		Pure sine wave	
THD		< 2% on linear load	
Transient Voltage		< \pm 5% for 100 step load change	
Transient Recovery		Within 10msec (cycle)	
Crest Factor		3:1	
Inverter efficiency		93%	
Overall efficiency		88%	
Technology			
a) Inverter		PWM with Mosfet/IGBT based.	
b) Switching Frequency		20 KHz	
Charger		Float cum boost charger (CVCC type)	
Cooling		Forced Air type	
Protection		Over load, short circuit, Over/Under Voltage, Battery Overcharge, Deep Discharge, Over Heat, MCB for input mains and battery.	
Indication		UPS on mains, UPS on battery, Battery Low, Output on Load on UPS, Load on Bypass, Overload, Fault.	
Display		AC Input Voltage, AC Output Voltage, Battery Voltage, Load %, Output Frequency, Battery Charging, Battery Charged	
Alarms		Audible alarm on over load, Short Circuit, Battery Low, Mains Fail, Mains Over/Under Voltage, Over Temperature.	
Overload behavior		During Over Load UPS will alarm and shut-down and By-pass with static switch.	
Environmental Condition			
(a) Ambient Temperature		0-50 °C	
(b) Operating Temperature		0-45 °C	
(c) Storage		20-60 °C	
(d) Humidity		98% RH non condensing.	
(e) Acoustic Noise		<40 db at 1.5 meter.	
Optional		Static By-pass, Battery Cabinet, Remote Panel, Digital Metering, Parallel redundant Combination, Communication Interface RS-232 Port for Software Interface/SNMP Interface.	

* R & D being continuous in progress, specifications are subject to change without prior notice.
 * We are providing customized UPS as per customer specification also .

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Authorised Dealer

ACPL

The Name Of Power People

Introduction: ACPL is one of the fastest growing Indian company rendering services in the power conditioning equipments industry since 1995.

ACPL is providing state-of-the-art double conversion type Solar Power Conditioning Unit/ Solar UPS as a Hybrid UPS from 1 KVA to several KVA depending on the load and hours of usage per day.

Hybrid UPS is compatible with Solar charge controller, mains & diesel generator with energy management function. Priority is always given to the Solar Energy. The Solar PCU have provision of charging for battery from Grid / Diesel Generator Power supply, when required, if Solar Photo voltaic charging is not available.

Solar Power generation is usually combined with either storage or other energy sources to provide continuous power. This Solar Power can be stored in a battery bank and consumed whenever required through Hybrid UPS. For grid connected systems when solar is not available, but grid is available, AC mains will supply the load along with charging the battery bank.

Hybrid UPS is compatible with mains supply, either storage DC energy converted into AC or AC mains to all type of connected loads (like - Computer, Fan, Light, Server, ATM etc.) with the Power Conditioning Unit. Whatever equipment is in use that does not matter, i.e. for all type of load only Power Conditioning Unit (Hybrid UPS) is required.

Salient Features:-

- Single equipment for all type of loads.
- True On Line Double Conversion Solar UPS.
- Highly Efficient Power Inverter to convert DC in to AC for connecting load.
- Wide Input Voltage range.
- Generator compatible.
- Float cum Boost charger.
- Compact and excellent workmanship.
- Compatible for all type and capacity of batteries.
- Smooth and silent operation.
- Soft start facility.
- Short circuit/over load protection.
- Easy in installation and maintenance.
- Maximum return of investments in form of quality UPS
- and after sales services.
- Peace of mind forever.

Applications:

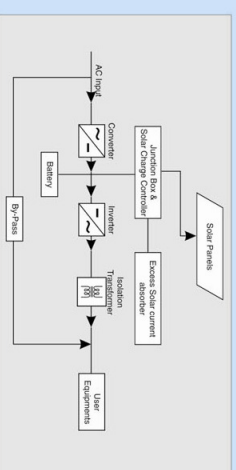
- All type of Lights, Fans, TVs, Computers, Kitchen Appliances, Music Systems, Cable TVs, Refrigerators, Vaccine Preservation and many others can be safely run on the Hybrid UPS.
- Banking Servers, Terminals & ATMs.
- Medical Diagnostic Systems.
- Power connection stations.
- Pre-press and printing equipments.
- Embroidery machines.
- Color Lab machines etc.
- Construction Sites.
- Hospital & Clinics.
- Educational Institutions.
- Farm Houses.
- Resorts.

Advantages:

- Latest Technology
- More Reliable
- Immediate response of Pre-sales and post sales services.
- High value return of your investment.

Optional:

- Static/Manual Bypass.
- Parallel Redundancy.
- Computer Interface RS-232/SNMP.
- Mains synchronization.



AN ISO 9001 : 2000 & 14001:2004 CERTIFIED COMPANY