


SOLAR HYBRID PCU

POWER CONDITIONING UNIT



SAVE MONEY /
CUT ELECTRICITY
BILLS



INTELLIGENT
CHARGE SHARING



BATTERY
CHARGING
FROM 90VAC



INSTANT
CHANGEOVER / BEST
SUITED FOR
IT LOAD



ATBM TECHNOLOGY
SELECTABLE
TUB / LA / VRLA & Li-Ion



BUILTIN HEAVY
DUTY SOLAR CHARGE
CONTROLLER



GENERATOR
COMPATIBLE

Introduction of Company

Let's improve the quality of life!

From a modest start in early 2000 we invested a lot of time, effort and money solving the customer's problem in the areas of electricity. Today we can't imagine life without electricity. We always strive to offer a solution to our customers which can bring brightness and smiles in their life. After successfully developing market, customer awareness and establishing a few brands in more than 30 countries and having focus on green energy, we have been engaged in the areas of energy storage, renewable energy, storage products and electrical solution.

The backbone of the company are-

- Most experienced professional in the field of energy storage.
- Research and Development facility to develop new technologies in the field of energy storage.
- Having state of the art manufacturing set up in Gurugram, Haryana, India
- An ISO 9001:2015 certified company and IEC 62040:-1:2017 & CE complied products.
- Successfully exporting all our products to more than 30 countries.



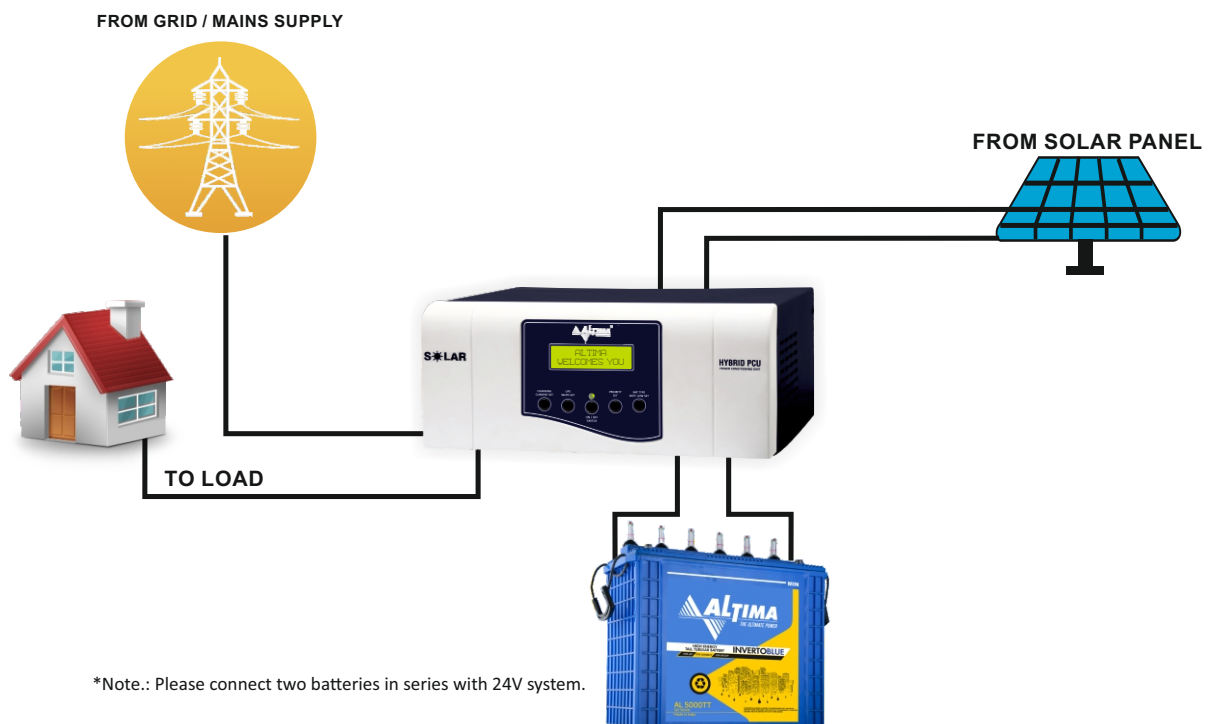
Solar PCU from Altima is one of the most reliable, trusted & technically advanced Solar PCU in the Global market. Solar PCU is an integrated system which primarily includes an Inverter, a Solar Charge Controller and a grid charger. Depending upon availability, the Intelligent Solar PCU automatically switches between Solar power or grid power for charging the Batteries and running the load. However Solar power is always given priority and only when it is insufficient, than Grid power.

Smart management of Solar power, Grid supply & Battery allows it to deliver power seamlessly to all electrical applications, thus significantly reducing energy costs as well as carbon footprint.

Salient Features

- Pure Sine Wave Output Ensuring Noise Less Operation.
- Built In Heavy Duty Solar Charge Controller.
- Smart Battery Management System For Longer Battery Life.
- Grid Charging Enable / Disable Option.
- LCD Display With Front Switch Settable Options of Grid Charging Current, UPS/WUPS - Mains Voltage Range, Solar Priority, Battery Type and Battery low Settings.
- High Surge Handling Capability for Mixed Load.
- Protection Against Overload, Short Circuit, Backfeed, Battery Deep Discharge

Installation Diagram





Technical Specifications

PWM SOLAR PCU		ASH1100	ASH1250	ASH1450	ASH1650	ASH1700	ASH2100
		750VA/12V	925VA/12V	1050VA/12V	1200VA/12V	1500VA/24V	1900VA/24V
INPUT	Main Wide UPS mode voltage range	90 ~ 295 ± 10 VAC					
	Main UPS mode voltage range	180 ~ 265 ± 10 VAC					
OUTPUT	Voltage (Mains mode)	Same as Input					
	Frequency (Mains mode)	Same as Input (41-65 Hz)					
	Waveform (Mains mode)	Same as Input					
	Rated Voltage (Backup mode)	230 VAC ± 10%					
	Rated Frequency (Backup mode)	50Hz ± 0.5 Hz					
	Waveform (Backup mode)	Pure Sine Wave					
SOLAR	Max Input Solar PV (V)	25 V				50 V	
	Max PV Watt (Wp)	800 Wp				1600 Wp	
	Voltage (Voc)	19-25 V				38-50 V	
	Voltage (Vmp)	17-19 V				34-39 V	
	Max PV Charging Current (A)	50 A					
BATTERY	Capacity	100Ah-250Ah					
	Type	Tubular, Flat Plate, SMF/VRLA or Any Local Battery Compatible					
	DC Voltage	12V				24V	
PROTECTIONS	Parameters	PV Reverse Polarity, Low Battery, Reverse Battery, PV High, Battery High Voltage, Overload, Output Short Circuit, Over Temperature, Resettable Circuit Breakers at Input Mains					
SETTABLE OPTIONS	Battery Charging Current (Mains mode) (A) (ON/OFF Switch any position)	20/15(Default)/10/5/0 AMPS					
	UPS/WUPS mode selection (ON/OFF Switch any position)	WUPS(Default) 90V TO 295V					
	Priority selection (ON/OFF Switch any position)	Grid(Default)/Solar/User1/User2/Normal					
	Battery Type selection (ON/OFF Switch ON Position only)	Tubular(Default)/LA/Li-ion*					
	Battery Low setting per battery (ON/OFF Switch OFF position only)	11/10.8/10.5(Default) V					
ENVIRONMENTAL	Operating Temperature	0-45°C (32-113°F)					
	Storage Temperature	0-45°C (32-113°F)					
	Humidity	0-95% RH non condensing					
PHYSICAL	Net weight (Kg)	7.4	8.3	9.1	11.0	13.6	14.4
	Gross weight (Kg)	8.2	9.1	9.8	11.7	14.7	15.7
	Dimensions (LxWxH) mm	295 x 288.3 x 134.5				295 x 309.8 x 182.5	

Specification are subject to change without prior notice.
For detailed technical specifications, please refer to our website.

PWM SOLAR PCU		ASH2500	ASH3000
		2250VA/24V	2750VA/24V
INPUT	Main Wide UPS mode voltage range	90 ~ 295 ± 10 VAC	
	Main UPS mode voltage range	180 ~ 265 ± 10 VAC	
OUTPUT	Voltage (Mains mode)	Same as Input	
	Frequency (Mains mode)	Same as Input (41-65 Hz)	
	Waveform (Mains mode)	Same as Input	
	Rated Voltage (Backup mode)	230 VAC ±10%	
	Rated Frequency (Backup mode)	50Hz ± 0.5 Hz	
	Waveform (Backup mode)	Pure Sine Wave	
SOLAR	Max Input Solar PV (V)	50V	
	Max PV Watt (Wp)	1600 Wp	
	Voltage (Voc)	38 ~ 50	
	Voltage (Vmp)	34 ~ 39	
	Max PV Charging Current (A)	50 A	
BATTERY	Capacity	100Ah-250Ah	
	Type	Tubular, Flat Plate, SMF/VRLA or Any Local Battery Compatible	
	DC Voltage	24 V	
PROTECTIONS	Parameters	PV reverse polarity, Low battery, Reverse battery, PV high, Battery high voltage, Overload, Output short circuit, Over temperature, Resettable Circuit Breakers at Input mains	
SETTABLE OPTIONS	Mains Charging Current (A) (ON/ OFF Switch ON position)	20/15(Default)/10/5/0 AMPS	
	UPS/WUPS mode selection (ON/ OFF Switch any position)	WUPS(Default) 90V TO 295V	
	Priority selection (ON/ OFF Switch any position)	Grid(Default)/SOLAR/User1/User2/Normal	
	Battery Type setting (ON/ OFF Switch ON position)	Tubular(Default)/LA/Li-ion*	
	Battery Low setting (per battery) (ON/ OFF Switch OFF position)	11/10.8/10.5(Default)V	
ENVIRONMENTAL	Operating Temperature	0-45°C (32-113°F)	
	Storage Temperature	0-45°C (32-113°F)	
	Humidity	0-95% RH non condensing	
PHYSICAL	Net weight (Kg)	17.9	19.7
	Gross weight (Kg)	19.5	21.3
	Dimensions (LxWxH) mm	295 x 315 x 280	

Specification are subject to change without prior notice.
For detailed technical specifications, please refer to product user manual

