An ISO 9001 : 2015 Company

DURASOL® Energi

LET'S IMPROVE THE QUALITY OF LIFE

SOLAR HYBRID PCU

PULSE WIDTH MODULATION

Designed by Inteli Energi
Inteli Energi
www.intelienergi.com

- 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
- BUILT-IN HEAVY DUTY SOLAR CHARGE CONTROLLER
- GENERATOR COMPATIBLE

www.intelenergi.com

1100/12V I 1250/12V I 1450/12V I 1650/12V I 1700/24V I 2100/24V I 2500/24V I 3000/24V

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 HYBRID PCU

PULSE WIDTH MODULATION

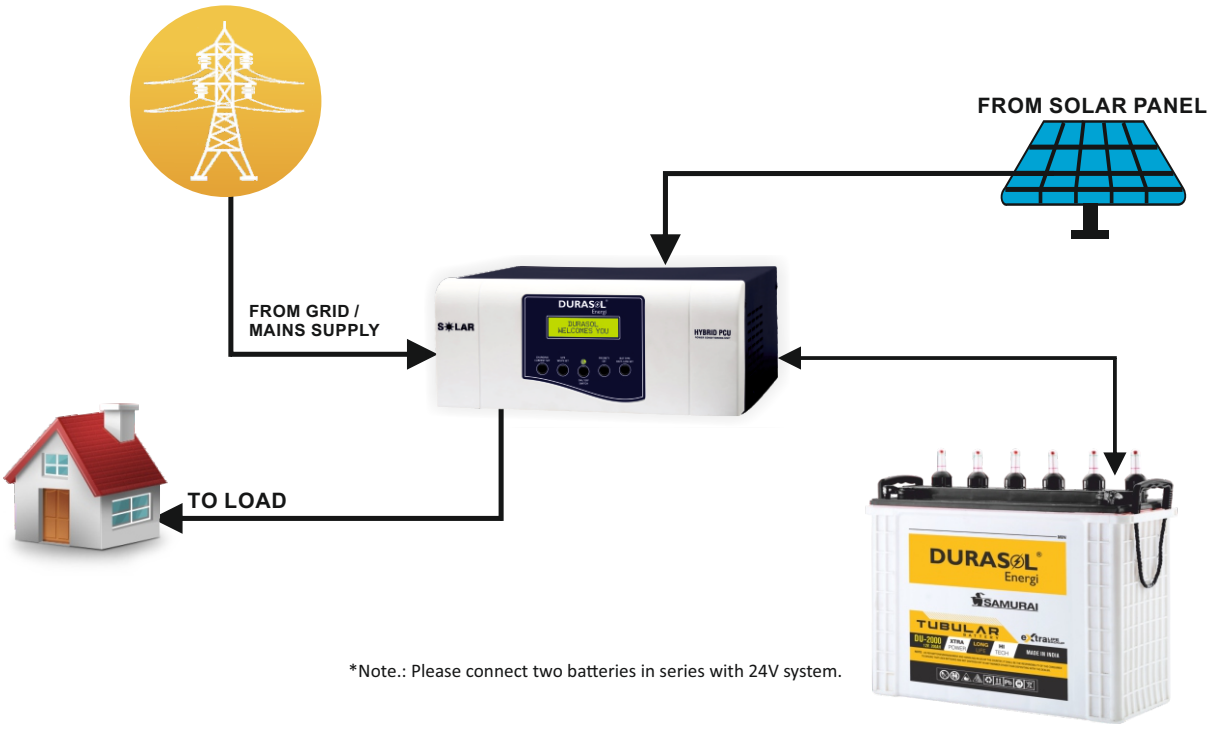
Solar PWM PCU from Intelenergi is one of the most reliable, trusted & technically advanced Solar PCU in the Global market. Solar PCU is an integrated system which primarily includes an Inverter, a Solar Charge Controller and a grid charger. Depending upon availability, the Intelligent Solar PCU automatically switches between Solar power or gird 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



*Note.: Please connect two batteries in series with 24V system.

Technical Specifications

PWM SOLAR PCU		DSH1100	DSH1250	DSH1450	DSH1650	DSH1700	DSH2100
		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.

Technical Specifications

PWM SOLAR PCU		DSH2500	DSH3000	DSH2570	DSH3070
		2250VA/24V	2750VA/24V	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 no of Panel in Parallel (Rec, Panel W-330W/335W/340W/400W)	5		7	
	Voltage (Voc)	38 ~ 50			
	Voltage (Vmp)	34 ~ 39			
	Max PV Charging Current (A)	50 A		70 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			
	Solar Charging Current (A) (ON/ OFF Switch OFF position)	-		20/30/40(Default)/50/60 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	18.0	19.9
	Gross weight (Kg)	19.5	21.3	19.6	21.5
	Dimensions (LxWxH) mm	295 x 315 x 280			

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For detailed technical specifications, please refer to product user manual

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Intelenergi

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