

An ISO 9001 : 2015 Company

# DURASOL<sup>®</sup> Energi

LET'S IMPROVE THE QUALITY OF LIFE

## PURE SINE WAVE UPS SERIES



SAVE MONEY /  
CUT  
ELECTRICITY  
BILLS



BATTERY  
CHARGING  
FROM 90VAC



INSTANT  
CHANGEOVER /  
BEST SUITED  
FOR IT LOAD



BUILT-IN  
HEAVY DUTY  
GRID  
CHARGER



GENERATOR  
COMPATIBLE



ATBM  
TECHNOLOGY  
SELECTABLE  
TUB / LA / VRLA & GEL

## 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.

## PURE SINE WAVE UPS SERIES

Durasol Pure Sine Wave UPS are innovative design two in one product which eliminates the need to have separate Power back-up system for the sophisticated home appliances, computers, LED TV, music systems etc.

A high-speed Microcontroller is used in the Home UPS system that helps in real-time control of hardware modules. This intelligent Home UPS system automatically detects a power failure & switches the system to back up mode providing Pure Sine Wave Output that is 100% clean, regulated, completely stable and distortion free and absolutely safe for running the most sophisticated and sensitive appliances silently. Home UPS is equipped with AC resettable circuit breaker for protection at Input Mains. The System charges the battery with Three stage boost, absorption and float for optimum charging. The Battery is charged with maximum available charging current in the boost mode. Once the battery is charged to maximum level, the charging state is changed to absorption, in this the battery maximum charge level is maintained and the charging current is controlled, after a predefined time in this state the charging voltage is reduced to the float level and maintained.

### Salient Features



Sine wave



Instant Changeover/  
Best suited for IT Loads



Saves Money/Cuts  
Electricity Bills



Built-In Heavy Duty  
Grid Charger



Battery Charging from  
90VAC



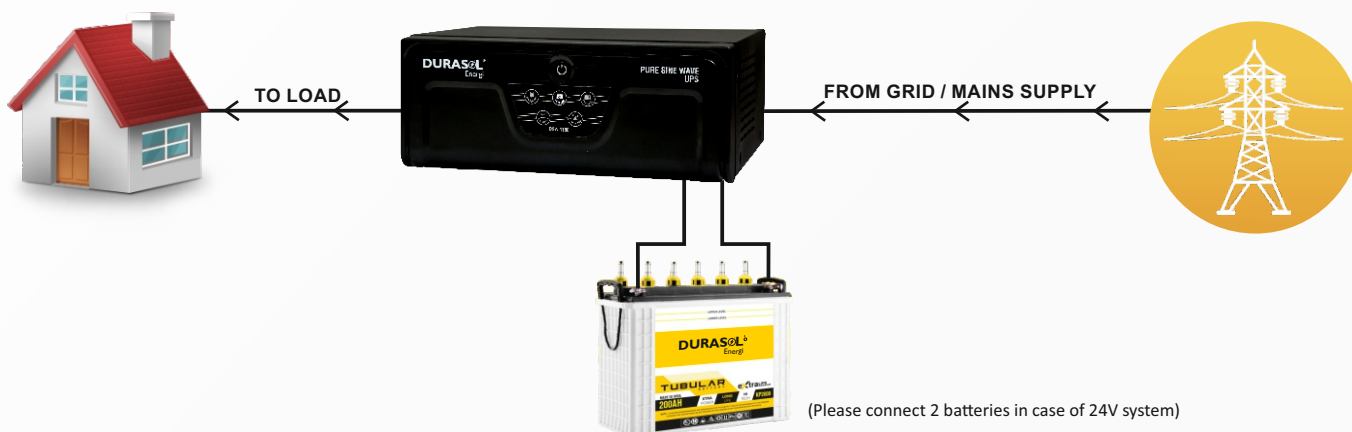
ATBM technology  
Selectable  
Tube/LA/VRLA & GEL



Generator  
Compatible

- Gravity profile management – best suitable for new / old aged battery.
- Dual mode of working:
  - (I) Wide Mains input voltage range (W-UPS) for normal household/office equipments.
  - (II) Narrow Mains input voltage range (UPS) for IT Equipments.
- High surge handling capability for mixed load.
- Protection against overload, short circuit, back feed, battery deep discharge.
- Built-in temperature controlled cooling fan for better thermal management to ensure optimal performance and life.
- DIY user friendly switches for setting various parameters (Mains voltage range/battery types/charging current).
- User friendly graphical LED/LCD display.

### Installation Diagram





## Technical Specifications

<b>Sine Wave UPS</b>	LED MODELS	DSW850	DSW950	DSW1050	DSW1150	DSW1250	DSW1450	DSW1700	DSW2100	DSW2500	DSW3000
	LCD MODELS					DSWL1250	DSWL1450	DSWL1700	DSWL2100	DSWL2500	DSWL3000
	Capacity	700VA/12V	760VA/12V	860VA/12V	950VA/12V	1050VA/12V	1200VA/12V	1500VA/24V	1900VA/24V	2250VA/24V	2750VA/24V
<b>INPUT</b>	Main Wide UPS mode Voltage range	90 ~ 290 ± 10 VAC									
	Mains UPS mode Voltage range	180 ~ 265 ± 10 VAC									
<b>OUTPUT</b>	Voltage (Mains mode)	Same as Input									
	Frequency (Mains mode)	Same as Input (41-65 Hz)									
	Wave Form (Mains mode)	Same as Input									
	Rated Voltage (Backup mode)	230 VAC ±10%									
	Rated Frequency (Backup mode)	50Hz ± 0.5 Hz									
	Wave Form (Backup mode)	Pure Sine Wave									
<b>BATTERY</b>	Capacity	100Ah - 250Ah									
	Type settable	Tubular, Flat Plate, SMF/VRLA or Any Local Battery Compatible									
	DC Voltage	12V					24V				
	Battery Low Warning/Shutdown	Warning : 10.7V, Shutdown : 10.5V (± 2% VDC) per battery									
<b>SETTABLE OPTIONS</b>	Normal Charging Current	10 ± 2 Amp					15 ± 2 Amp				
	Fast Charging Current	15 ± 2 Amp					20 ± 2 Amp				
	Battery Type selection	Tubular/ SMF or FLA (Flat Plate Lead Acid)									
	UPS/ WUPS Mode selection	180 ~ 265 ± 10 VAC or 90 ~ 295 ± 10 VAC									
<b>LED DISPLAY AND ALARMS</b>	Mains Bypass Mode	Mains LED glows continuously. Mains LED blinks continuously with buzzer beeps for few seconds in case the Mains Input Circuit Breaker Trips due to overload/short circuit during Mains bypass mode.									
	Charging On (CHG)	Charging LED blinks in Boost/Absorption modes, Glows continuously in float mode when battery is charged									
	Backup mode	Backup mode LED glows continuously when UPS is running on battery									
	Low Battery Warning	Low Battery LED blinks with Buzzer beeps									
	Low Battery Shutdown	Low Battery LED blinks continuously with Buzzer beeps									
	Overload (O/L)	Overload LED blinks with Buzzer beeps, in case of Overload/Shortcircuit/ Over Temperature warnings. Over Load LED glows continuously in case of Overload/Shortcircuit/Over temperature Shutdown									
<b>LCD DISPLAY AND ALARMS (For LCD Models)</b>	Display Messages	Circuit Breaker Trip, Battery Low Warning and Shutdown, Over Load Warning and Protection, Over Temperature Warning and Shutdown, Short Warning and Shutdown, Back feed Protection, Battery Type and Charging Current Setting, Battery Voltage and Load Percentage									
<b>PROTECTIONS</b>	Parameters	Low battery, Reverse battery, Battery high voltage, Overload, Output short circuit, Over temperature, Resettable Circuit Breaker/MCB Input mains.									
<b>ENVIRONMENTAL</b>	Operating Temperature	0-45°C (32-113°F)									
	Storage Temperature	0-45°C (32-113°F)									
	Humidity	0-95% RH non condensing									
<b>PHYSICAL</b>	Net Weight (Kg)	6.3	7.4	7.6	7.9	8.9	10.6	13.2	14.0	17.7	19.5
	Gross Weight (Kg)	7.1	8.1	8.3	8.6	9.7	11.5	14.5	15.3	19.2	20.9
	Dimensions (L x W x H) mm	270 x 275 x 115				285 x 295 x 135			315 x 295 x 180		315 x 295 x 280

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

MID CAPACITY SINEWAVE UPS		MODELS	DSWL4000	DSWL6000
		Capacity	3.5 kVA/48V	5 kVA/48V
INPUT	Default Mains range	90 ~ 280 ± 10 VAC		
	Settable Mains range	Low Cut (90 ~ 180 ± 10 VAC), High Cut (250 ~ 300 ± 10 VAC)		
OUTPUT	Voltage (Mains mode)	Same as Input		
	Frequency (Mains mode)	Same as Input (41-65 Hz)		
	Wave Form (Mains mode)	Same as Input		
	Rated Voltage (Backup mode)	230 VAC ±10%		
	Rated Frequency (Backup mode)	50Hz ± 0.5 Hz		
	Wave Form (Backup mode)	Pure Sine Wave		
BATTERY	Capacity	100Ah-250Ah		
	Type Settable	Tubular, Flat Plate, SMF/VRLA or Any Local Battery Compatible		
	DC Voltage	48V		
	Charging Current	5-20A Settable		
	Battery Low Warning/Shutdown	Warning : 10.7V, Shutdown : 10.5V (± 2% VDC) per battery		
PROTECTIONS	Parameters	Low battery, Reverse battery, Battery high voltage, Overload, Output short circuit, Over temperature, MCB Input mains, MCB battery.		
SETTABLE OPTIONS	Battery Charging Current (Mains mode) (A)	20/15(Default)/10/5/0 AMPS		
	Mains Low Cut/High Cut range	WUPS 90V TO 300V		
	Battery Type selection	Tubular(Default)/LA/Li-ion		
LCD DISPLAY	Parameters	Grid Voltage, Battery Voltage, Output Voltage, Charging Current, Load %, Overload, Short circuit, Low Battery etc.		
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)	28.3	35.4	
	Gross weight (Kg)	30.1	37.5	
	Dimensions (L x W x H) mm	350 x 295 x 335	350 x 295 x 445	

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## Intelenergi Global Private Limited

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