

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 Home UPS

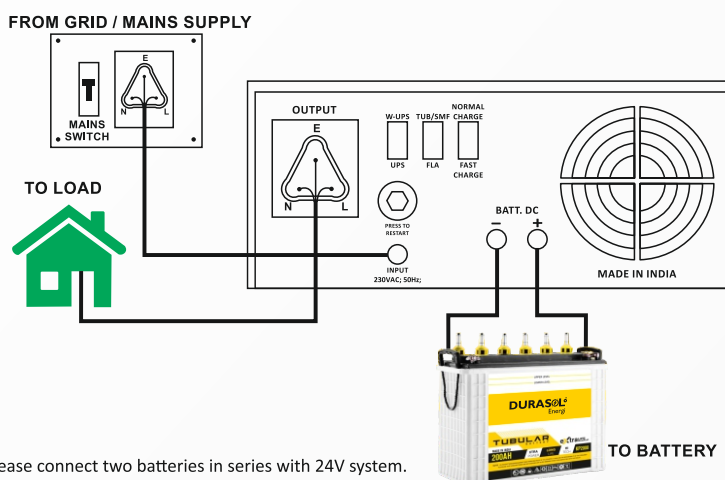
Durasol Pure Sine Wave UPS are innovative design two in one product which eliminates the need to have separate Power back-up system for the sophisticated home appliances, computers, LED TV, music systems etc.

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

- Pure Sine Wave output ensuring noiseless operation.
- Built-in heavy duty & efficient grid charger for faster charging
- Improved input power factor during grid charging mode hence reduced electricity bills.
- Best suited for cyclic applications / longer and frequent power cut areas.
- Built-in intelligent multi stages battery management system for longer life of battery.
- Gravity profile management – best suitable for new / old aged battery.
- Dual mode of working:
 - ▶ Wide Mains input voltage range (W-UPS) for normal household/office equipments.
 - ▶ 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



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





Technical Specifications

Sine Wave UPS		DSW850	DSW950	DSW1050	DSW1150	DSW1250	DSW1450	DSW1700	DSW2100
		700VA/12V	760VA/12V	860VA/12V	950VA/12V	1050VA/12V	1200VA/12V	1500VA/24V	1900VA/24V
INPUT	Main Wide UPS mode Voltage range	90 ~ 290 ± 10 VAC							
	Mains UPS mode Voltage range	180 ~ 265 ± 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 ± 0.1 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	12V				24V			
	Battery Low Warning/Shutdown	Warning : 10.7V, Shutdown : 10.5V (± 2% VDC)							
SETTABLE OPTIONS	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							
LED DISPLAY AND ALARMS	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							
PROTECTIONS	Parameters	Low battery, Reverse battery, Battery high voltage, Overload, Output short circuit, Over temperature, Resettable Circuit Breaker/ MCB Input mains.							
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)	6.9	7.4	8.0	8.5	9.0	11.0	13.5	14.3
	Gross Weight (Kg)	7.6	8.1	8.6	9.2	9.7	11.7	14.8	15.6
	Dimensions (LxWxH) mm	278 x 264 x 118				295 x 284 x 135		295 x 284 x 309	

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

MID CAPACITY SINEWAVE UPS SERIES		DSW4000	DSW6000
		3500VA/48V	5000VA/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 ± 0.1 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	
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)	27.4	31.5
	Gross weight (Kg)	28.9	33.0
	Dimensions (LxWxH) mm	350x295x335	385x295x335

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