An ISO 9001 : 2015 Company

DURASOL® Energi

# DIGITAL SMART

## UPS SERIES

Designed by Inteli Energi
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- SAVE MONEY / CUT ELECTRICITY BILLS
- INSTANT CHANGEOVER / BEST SUITED FOR IT LOAD
- BUILT-IN HEAVY DUTY GRID CHARGER
- GENERATOR COMPATIBLE
- ATBM TECHNOLOGY SELECTABLE TUB / LA / VRLA & GEL

www.intelenergi.com

1000/12V & 1125/12V

## 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.

# DIGITAL SMART

## UPS SERIES

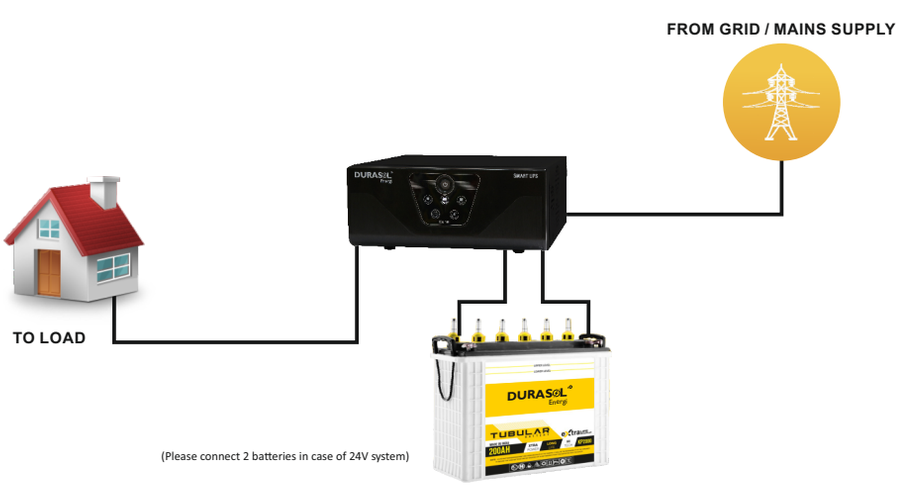
Durasol Digital Smart UPS are innovative design two in one product which eliminates the need to have separate Power back-up system for the sophisticated Home Appliances, LED TV, Music systems, Security systems with Camera & DVR, Computers & IT equipments (modems & routers etc).

A high-speed Micro controller is used in the UPS system that helps in real-time control of hardware modules. This intelligent Digital Smart UPS system automatically detects a power failure & switches the system to back up mode providing Digital Output that is 100% clean, regulated, completely stable and absolutely safe for running the most sophisticated and sensitive appliances silently. 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 constant 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 voltage level is maintained and the charging is controlled in this state, after a predefined time based on estimated battery capacity, the charging voltage is reduced to the float level and maintained.

## Salient Features

- 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 display.

## Installation Diagram



## Technical Specifications

| Digital Smart UPS | | DSQ1000 | DSQ1125 |
|---|---|---|---|
| | | 850VA/12V | 950VA/12V |
| 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 ± 0.1 Hz | |
| | Waveform (Backup mode) | Modified Sine Wave | |
| BATTERY | Capacity | 100Ah-200Ah | |
| | Type settable | Tubular, SMF/VRLA, Flat Plate or Any Local Battery Compatible | |
| | DC Voltage | 12V | |
| | Battery Low Warning/ Shutdown | Warning: 10.7V, Shutdown: 10.5V (± 2% VDC) | |
| PROTECTIONS | Parameters | Low battery, Reverse battery, Battery high voltage, Overload, Output short circuit, Over temperature, Resettable Circuit Breakers/MCB at Input mains | |
| SETTABLE OPTIONS | Battery Charging Current Normal Charging(A) | 10 ± 2 Amp | |
| | Battery Charging Current Fast Charging(A) | 13 ± 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 | |
| LCD DISPLAY & ALARMS | Mains Bypass Mode | Mains LED glows continuously. Main 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, LED 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 continuously on with Buzzer beeps | |
| | Overload (O/L) | Overload LED blinks with Buzzer beeps depending of % of Overload, Short circuit current and internal temperature of heatsink/product. Overload LED glows continuously in Overload / Short circuit /Thermal shutdown case | |
| 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) | 7.6 | 8.9 |
| | Gross Weight (Kg) | 8.3 | 9.6 |
| | Dimensions (LxWxH) mm | 278 x 264 x 118 | 278 x 264 x 118 |

*Under standard operating condition of battery fully charged.
Specification are subject to change without prior notice.
For detailed technical specifications, please refer to our website.

# OUR COMPLETE RANGE OF POWER SOLUTIONS

Intelenergi

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