

# Digital Smart UPS



Range 1000/12V & 1125/12V

220V

Controlled Output voltage



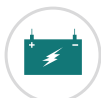
Save money / Cut electricity bills



Instant changeover / best suited for IT load



Built-in heavy duty grid charger



Supports flat, tubular, SMF & local battery



ATBM technology Selectable Tub / LA / VRLA & Li-ion



Generator Compatible

### 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 -

- Having 3 state of the art manufacturing facility in North of India.
- Total installed capacities of all the batteries and inverter are more than 1 Million a year.
- One of the largest OEM supplier & technology partner to conglomerate to big energy & solar brands globally.
- We are ISO, CE, UL certified and our products are approved for Saber Saleem (SASO), SONCAP by SGS and Intertek, CBCA by BIVAC, NEPQA.
- Products complied for JIS 8702-1:2009, IEC 60086, IEC 60896-22:2004.



## Digital Smart UPS

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.

- **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.

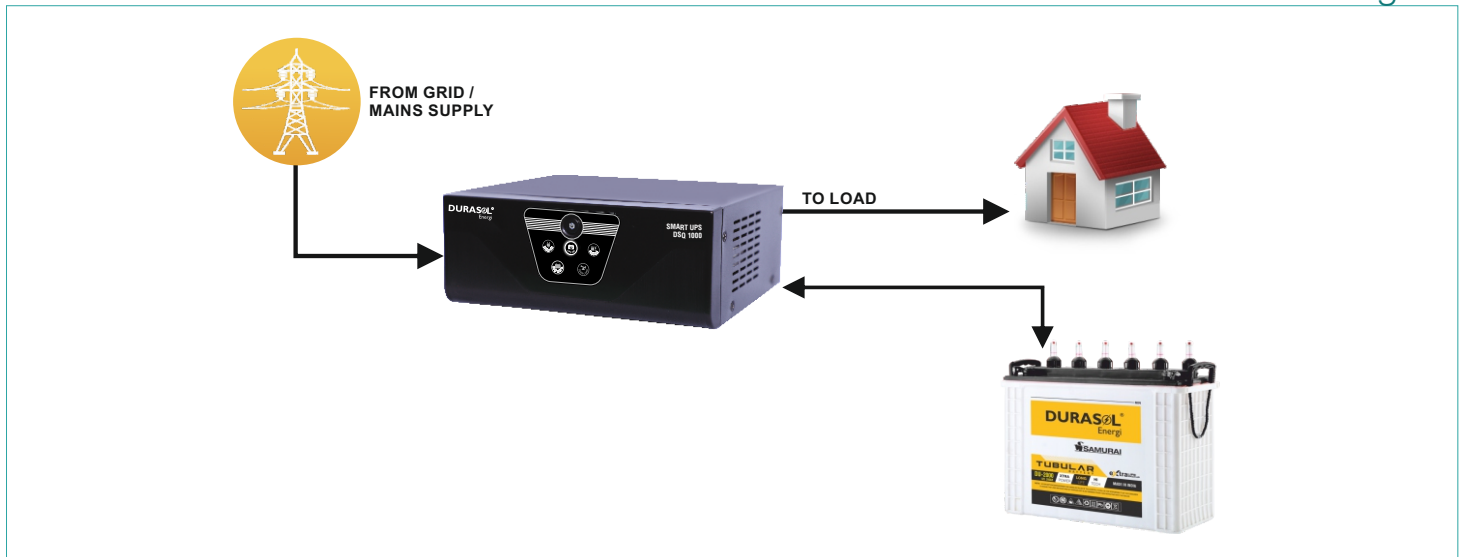


# Technical Specifications - Digital Smart UPS

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 ± 0.5 Hz	
	Waveform (Backup mode)	Modified Sine Wave	
BATTERY	Capacity	100Ah-200Ah	
	Type	Tubular, Flat Plate, SMF/VRLA 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 heat sink / 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)	7.5	8.7
	Gross weight (Kg)	8.2	9.6
	Dimensions (LxWxH) mm	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 the product manual.

## Installation Diagram



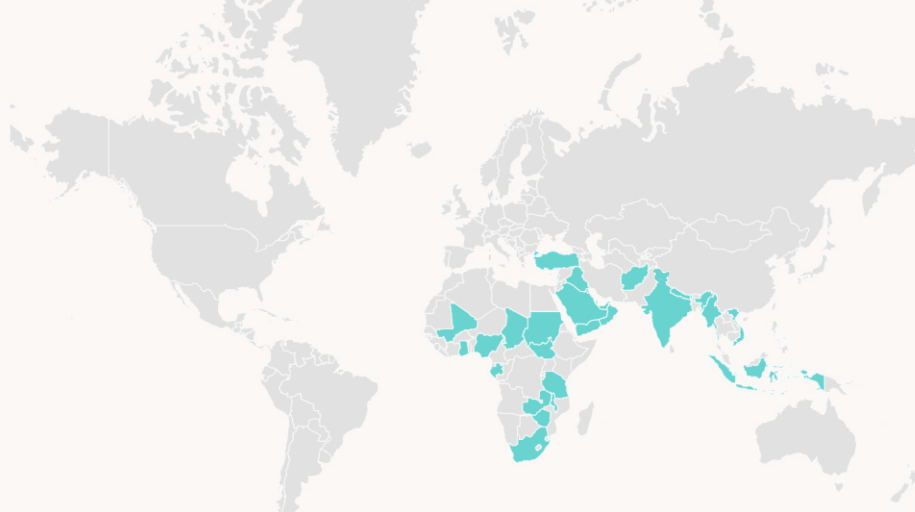
# OUR COMPLETE RANGE OF ENERGY SOLUTIONS

(Products other than Inverter, Solar PCU and batteries are under ETG brand)



## Our Presence

Presence in more than 30 countries and still counting.  
Overseas offices in Middle East and manufacturing facilities at Sudan.



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