

Powering the World with Intelligent Energy Solutions



All in One - BESS

Battery Energy Storage Solutions

Durasol Energi Technof Series BESS is a floor / Wall Mount / Rack based energy storage solution with multiple application scenarios, developed by Intelenergi with Inbuilt Lifepo4 battery, PCS and EMS unit integrated inside. It is suitable for household emergency power backup (power shortage, power failure, typhoons, earthquakes and other natural disasters), peak and valley price arbitrage, and self generating and self-use, and has outstanding advantage in the application files of household energy storage.

Features

- Single-phase design, supporting multi-system grid voltage standards
- Multiple working modes (Settable photovoltaic Grid and Battery priority)
- App based remote monitoring system.
- LCD Display for inverter and SOC indication for battery
- Multiple protection, safe and reliable in use.
- Aesthetic, elegant and beautiful with simple installation.

RANGE 500VA to 125kW



BESS with built in energy storage
Smart Integrated BESS



Multi-mode operations Hybrid, Off Grid
Multi-mode Operations



Zero Running Cost
Maximum Savings



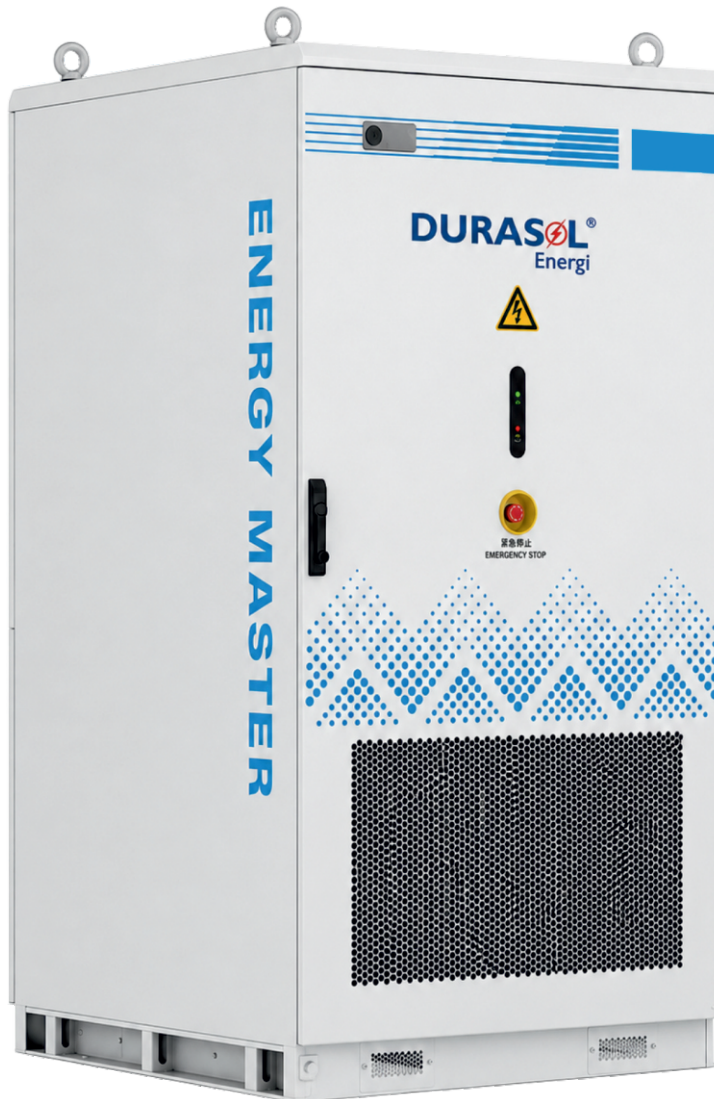
ROI within 5 years
Long term Return



Zero Carbon Emissions
Sustainable Energy

BESS

Battery Energy Storage System 125kW - 261kWh Onwards



Features

- DC Voltage Protection
- Over Temperature Protection
- Communication Fault Protection
- Cooling System Fault Protection
- Advanced Liquid Cooling System
- Inbuilt Fire Protection System
- High Efficiency Energy Storage Solution
- Smart Battery Management System (BMS)
- Industrial Grade Design
- Safe & Reliable Performance
- Easy Installation & Maintenance
- Suitable for Commercial & Industrial Applications
- Compact & Durable Cabinet Design
- Continuous Power Backup Support
- Sustainable & Eco-Friendly Energy Solution

POWERING A SUSTAINABLE FUTURE

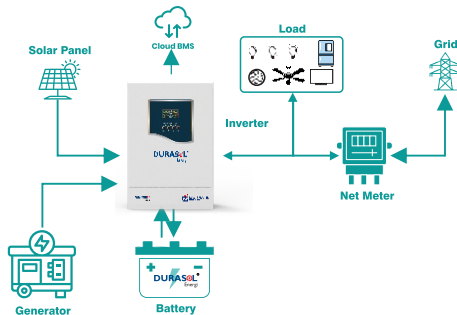
Manufacturing & Industrial Facility	Commercial Buildings & IT Park	Hospitals & Critical Infrastructure	EV Charging & Microgrids	Warehousing & Cold Storage
SAFE Advanced Protection	RELIABLE Built to Last	SUSTAINABLE Clean Energy Solutions	SMART Intelligent Integration	

Solar Hybrid Inverter Series

Active Hybrid Solar Inverter

- Best Suitable for Lithium Battery
- Intelligent Power Supply Mode, Intelligent Distribution of Solar Panel / Utility / Battery Power sharing
- Adjustable Grid & PV Charging Voltage, Match Different Battery Charging Protocols
- Slim Body for Convenient Installation and Transportation
- Multiple Protections for battery
- PF1.0, High Efficiency, Lower Consumption, Energy Conservation / Environmental Protection / Electricity Saving / Cost Saving
- Parallel Function Up to Maximum 9 Units*
- High Precision of Output Voltage, $\pm 5\%$, Take Care of your appliances
- Communication Option: External WiFi, Supervise at any time
- BMS function for lithium battery
- IP21 (3.6 kW onwards)

Working With Grid Export

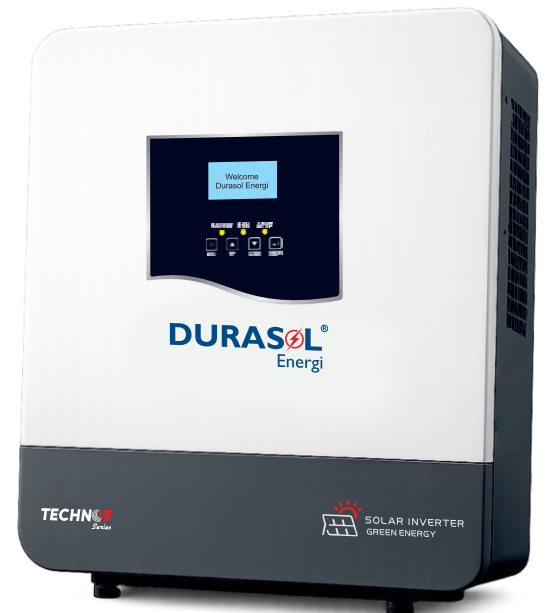
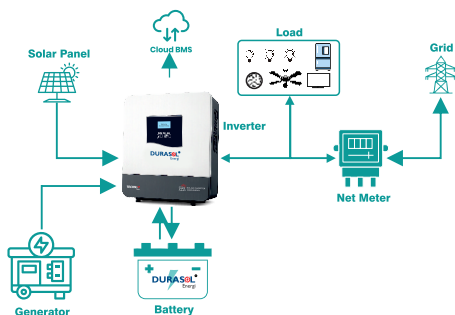


RANGE 2kW to 11kW

Active Hybrid Solar Inverter (IP54)

- IP54 Protection Design
- BMS function for lithium battery
- Communication Option: External WiFi, Supervise at any time
- High Precision of Output Voltage, $\pm 5\%$, Take Care of your appliances
- PF1.0, High Efficiency, Lower Consumption, Energy Conservation / Environmental Protection / Electricity Saving / Cost Saving
- Parallel Function Up to Maximum 9 Units*
- Multiple Protections for battery
- Slim Body for Convenient Installation and Transportation
- Adjustable Grid & PV Charging Voltage, Match Different Battery Charging Protocols
- Intelligent Power Supply Mode, Intelligent Distribution of Solar Panel / Utility / Battery Power sharing
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Working With Grid Export



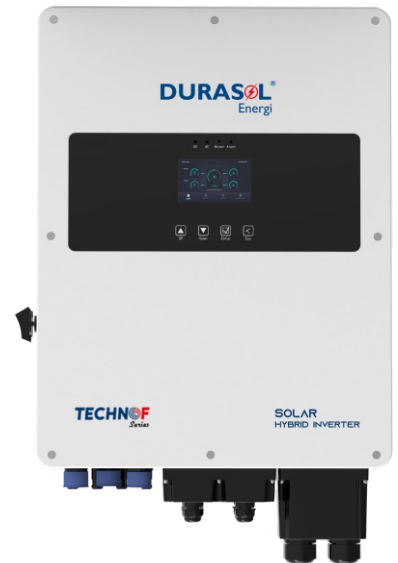
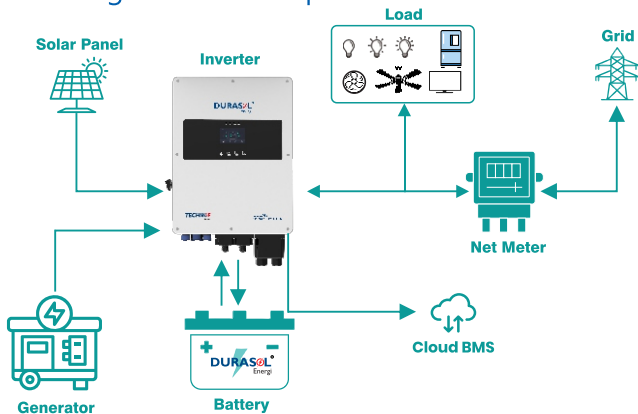
RANGE 3kW to 11kW

Solar Hybrid Inverter Series

Pure Hybrid Inverter (1Phase & 3 Phase)

- Parallel Connection Up to 20 Units in off grid mode & 6 units On Grid Mode
- PV isolated Switch
- Support on/off grid mode switch
- Emergency power Supply output
- Colourful Touch LCD Display
- Rotinerd with all accessories (e.g C.T. & wifi stick)
- Support storing energy from diesel generator
- IP 65 protection degree

Working With Grid Export

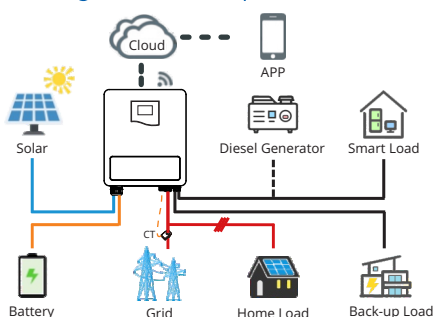


RANGE 5kW to 14kW

Pure Hybrid Solar Inverter (IP66)

- Pure sine wave inverter
- Built-in MPPT solar charge controller
- With CAN/RS485 for BMS communication
- Optional WIFI remote monitoring
- With limit function, prevent excess power overflow to the grid
- Lithium battery activation function
- Cold start function
- Solar and Battery can power loads at the same time
- Compatible to mains voltage or generator power
- Parallel connection quantity up to 12 units (Battery must be connected)
- Intelligent fan control greatly reduces fan noise
- Overload/over temperature/short circuit protection
- Small size and light weight

Working With Grid Export



RANGE 4.6kW to 8.6kW

Home ESS Inverter Series

Chhota Bheem Series

- Built-in LiFePO4 Battery
- Pure Sine Wave output ensuring noiseless operation.
- Built-in Heavy duty efficient grid charger with improved input power factor, best suited for cyclic applications/longer and frequent power cut areas.
- Intelligent Battery Management System for longer life of battery.
- High surge handling capability for mixed load.
- Protections against Overload, Short circuit, Back feed, battery deep discharge.



SAVE MONEY/
CUT ELECTRICITY
BILLS



BATTERY
CHARGING
FROM 90VAC



INSTANT
CHANGEOVER / BEST
SUITED FOR IT LOAD



BUILT-IN
HEAVY DUTY
GRID CHARGER



GENERATOR
COMPATIBLE



INBUILT LiFePO4
BATTERY



RANGE 800VA to 2250VA

All In One Solar Series (Li-Fusion)

- Built-in LiFePO4 Battery
- Grid Charging Enable /Disable
- Pure Sine Wave Output Ensuring Noise Less Operation
- Smart Battery Management System For Longer Battery Life.
- Built In Heavy Duty Solar Charge Controller
- High Surge Handling Capability for Mixed Load
- Protections Against Overload, Short Circuit , Backfeed, Battery Deep Discharge



SAVE MONEY/
CUT ELECTRICITY
BILLS



BATTERY
CHARGING
FROM 90VAC



INBUILT LiFePO4
BATTERY



BUILT-IN
HEAVY DUTY
SOLAR CHARGER



GENERATOR
COMPATIBLE



RANGE 800VA to 2250VA

On Grid / Grid Tie Inverter

Grid Tie Inverter

Features

- Big LCD Display
- Compact & Easy to Install
- Remote Monitoring
- Simple Installation - Fault code warning view on LCD display
- Safer - Comply with International Quality Standards
- IP65 protection degree



>99%
MPPT EFFICIENCY



PARALLEL
FUNCTION



>0.99 PF
DESIGN



WiFi
COMMUNICATION
(optional)

RANGE 1kW to 25kW



Solar Panel

DCR & Non DCR

Mono Perc half cut solar PV Bifacial Module

Features



Low LID Degradation using PERC Technology -
Enhanced Power Generation During its Life Cycle



Improved Temperature Coefficients -
Better Generation at Higher Temperature



Reduced Resistive Loss with MBB Technology -
Excellent Module Performance



Half Cut Cell Design - Excellent Performance
Under Partial Shading Conditions



Lower LCOE (Levelized Cost of Electricity) -
Faster Return on Investment (ROI)



Manufactured in Fully Automatic Production Line



100% in line Hi-Pot testing, 100% EL Testing at
3 stages – Stringer, In process and Final Testing



Manufactured using certified Tier 1 BOM Meeting
Highest Quality Standards



Certified for Pollution Degree II, Salt Mist Resistant
(Severity 6), Ammonia & PID Resistant



Better reliability under Extreme Environmental Conditions



Battery Series

Lithium Battery

Durasol Energi Technof Series DUL2400P, DUL24200P & DUL51100P wall mounted energy storage power supply is a high-tech product with multiple application scenarios which is developed by Intelenergi. The battery has small size, light weight with long cycle life and supports rapid charging. It adopts advanced intelligent power supply with protection functions of over charge, over discharge, over current and temperature and has outstanding advantages in the application field of household energy storage.

Features

- Extremely simple design in appearance
- Elegant appearance IP20
- It supports multiple battery modules in parallel
- Easy installation and Zero maintenance,
- Multiple protection and alarm system, safe and reliable.



Prismatic LiFePO4 cells



High Energy Density



Cell Balancing



Parallel Connection



Instant Charging



Long Life



Safe



Zero Maintenance



Smart BMS



3.2" LCD Display



Double Protection



RANGE 12.8 - 51.2V

Lead Acid Battery

The Tubular Plate technology enable batteries to deliver a larger amount of consistent, reliable power. They are engineered to deliver increased power and efficiency while maximizing the battery life. The Tubular plate batteries performed better on heavy duty application even the maintenance required with this batteries is quite less. The batteries withstand long and frequent power cuts.

- **Long shelf life** - heavy duty tubular plates to give you excellent cyclic life with deep cycle capabilities.
- **Special alloys** for low maintenance of batteries.
- **DARAMIC separator** with high porosity, low electrical resistance and excellent oxidation resistant.
- **Extra thick spines** cast at high pressure to ensure minimum corrosion for reliability, extra-long life and strength.
- **Micro porous aqua trap vent plug** to ensure minimum acid fumes which ensures low maintenance of batteries.
- Ceramic flame arrest or prevents electrical spark to go in and therefore ensures **highest degree of safety** for all domestic and office usage.
- **Excellent performance** under extreme temperature conditions.
- **Aesthetically designed**, low foot print- occupies less space.
- Thick spines for **excellent discharge performance** on heavy loads.
- **Specially designed vent plugs** for minimum acid fumes.
- Most compact Tall Tubular design with global acceptability.
- **Extra thick Gaunlets** suitable for harsh weather condition.
- Leak proof heat sealed **tall PP container**.



RANGE 100Ah to 300Ah / 12V



Excellent Ampere Hour & Watt Hour Efficiency



Superior Cyclic Life



Ultra Low maintenance



Designed to Operate in Partial State of Charge Condition

XMR Based Solar PCU

Solar Hybrid PCU

Durasol Energi Solar PCU is one of the most reliable, trusted & technically advanced Solar PCU. 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 grid power for charging the batteries and running the load. 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.

- Pure sine wave output ensuring noiseless 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.

12/24V Panel Compatible



RANGE 500VA - 3KVA



Save Money/Cut Electricity Bills



Intelligent Charge Sharing



Built-in Heavy Duty Solar Charge Controller



Generator Compatible



Battery Charging From 90Vac



ATBM Technology Selectable TUB/LA/VRLA/Li-Ion*



Instant Changeover/ Best Suited for IT Load

Solar MPPT Hybrid PCU

- Maximum Power Point Tracking (MPPT) techniques are used to maintain the PV array's operating point at its maximum power point (MPP) and extract the maximum solar power available in PV arrays.
- MPPT charge controllers are more efficient than PWM charge controllers. The rule of thumb conversion efficiencies are about 70-75% for PWMs and 95-99% for MPPTs.
- MPPT Typically increases the current to the battery by approximately 25% to 30%.
- MPPT controller gives the flexibility to use wide range of capability of PV module/array with higher input voltage than the battery bank which reduces the input PV current and heat conductor area of copper PV cable & cost.

Durasol Solar Hybrid PCU (MPPT Based) is one of the most reliable, trusted and technically advanced Solar PCU in the industry.



RANGE 2KVA

Solar Priority

- **Solar Battery Grid** - with default & settable Depth of discharge of battery
- **Solar Grid Battery** - with fixed and default Depth of discharge of battery
- **Solar only Mode** - The unit will never go to mains bypass and charging, PCU will remain in solar/battery only.
- **Normal Mode** - In normal mode the PCU works as a normal inverter with solar charging. The unit will go to battery only if mains is not in specified range.

Ease of Commissioning

- Reliable universal input & output terminal.
- It is easy to install which makes it a perfect solution for solar integration.
- It is designed for easy installation & commissioning and maintenance.

Display & Monitoring

- User friendly LCD Display.
- Data logging capability more than five years.
- RS 232/GSM/GPRS/Wifi interface for remote monitoring & control (Optional).

Robust Inverter design

- Heavy duty solar charger.
- MPPT equipped with interleaved Buck converter.
- Completely safe - DC MCB for battery & PV, AC MCB for AC input.
- Input, Output galvanic isolation through transformer.
- Robust design to handle grid supply & solar power variation.
- Manual bypass switch for uninterrupted maintenance.



BUILT-IN HEAVY DUTY SOLAR CHARGE CONTROLLER



30% MORE EFFICIENT THAN CONVENTIONAL PWM PCU



99% MPPT TRACKING ACCURACY



HIGH EFFICIENCY ENERGY SAVES ENERGY



POWER SAVING SOLAR BATTERY CHARGER CURRENT SETTING



INTELLIGENT SHARING OF SOLAR AND GRID CHARGING CURRENT

Home Series - Low Frequency Home Inverter

Pure Sine Wave (DSWL SERIES)

- DSW Series provides pure sine wave AC power of higher quality than that of the grid has low interference with radio, communication and precision equipment, soundless, good load adaptability, very low distortion and can meet all AC load applications.
- DSW Series has high efficiency inverter and low no load current.
- Wide range of applications, strong load capacity, excellent stability, In the case of meeting the power, it can drive almost any kind of electrical appliance.
- This system has perfect protection functions against over-voltage, under-voltage, overload, overheat, short-circuit and reverse connection, ensuring high stability.
- LCD displays battery voltage and output voltage as well as status parameters.
- Modified Harvard architecture digital signal controller based: The core device is controlled by powerful micro-controller, which makes the peripheral circuit structure simple and the control mode and control strategy flexible, and powerful, thus ensuring excellent performance and stability.



RANGE 500VA - 10KVA



Digital Smart (HiQ Series) (DSQ Series)

- Quasi 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 Display.



RANGE 500VA - 2KVA



Born in India, Made for the World

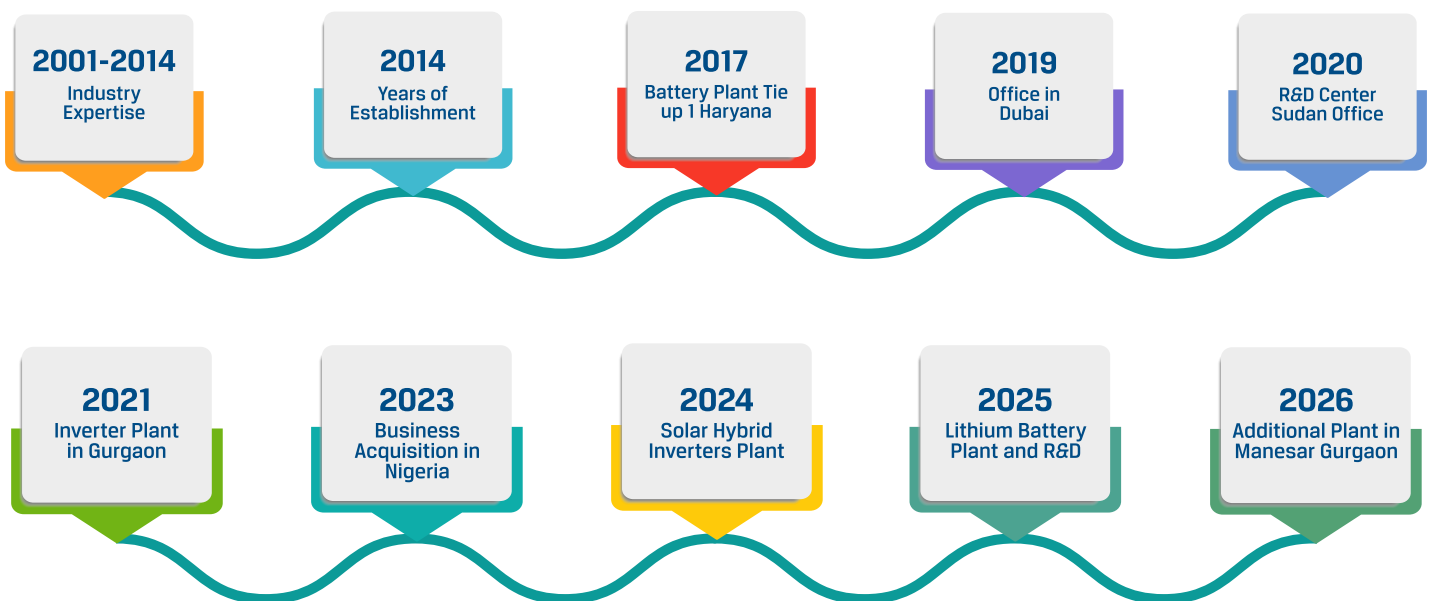
Durasol Energi, the flagship brand of Intelenergi Global Pvt Ltd, is a globally recognized energy solutions provider with a strong presence in 40+ countries worldwide

We specialize in advanced LiFePO4 batteries, solar panels, solar inverters, home UPS systems, solar water pumps, and Battery Energy Storage Systems (BESS)—delivering reliable, high-performance, and sustainable power solutions for homes, businesses, and industries.

Driven by continuous research and innovation, our products are precision-engineered and manufactured in state-of-the-art facilities under strict quality management systems. Certified with ISO, CE, and UL standards, our solutions meet international benchmarks for safety, efficiency, and reliability.

With 35+ global service centres, robust PAN-India operations, and recognition as a Star Export House, Durasol Energi is committed to delivering excellence, building lasting partnerships, and expanding its global footprint.

**Powering Progress. Responsibly and Reliably.
Improving the Quality of Life**



OUR COMPLETE RANGE OF ENERGY SOLUTIONS



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