



India's Leading Energy Storage Company



Durasol Energi Technof Series ESS is a floor based energy storage solution with multiple application scenarios, developed by Intelenergi with Inbuilt Lifepo4 battery, PCU 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.

Salient Features

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



Applications



Residences



Bank



Shops



Clinics



Gyms



Small Offices

Parameters / ESS		DOESS 162	DOESS 305	DHESS 365	DHESS 610	DHESS 1120
ESS Parameters	Rated Inverter Capacity	1.6 kW	3 kW	3.6 kW	6.2 kW	11 kW
	Rated Energy Storage	2.56 kWh	5.12 kWh	5.12 kWh	10.24 kWh	20.48 kWh
Battery parameters	Rated voltage	12.8 V	25.6 V		51.2 V	51.2 V
	Rated Capacity	200Ah				
	Battery Type	Lifepo4				
	No of Cycle	>3000				
Inverter parameters	Input Sources	L+N+PE				
	Voltage Range	90-280VAC±3V(Normal Mode)170-280VAC±3V (UPS Mode)				
	Frequency	50Hz/60Hz (Auto Adaptive)				
	Rated Output Voltage	220/230/240VAC				
	Output Waveform	Pure Sine Wave				
	Transfer Time (adjustable)	Computers(UPS Mode)10ms,Appliance(APL Mode)20ms				
	Output Waveform	Battery mode11s@105% Load:2s@150%~200%Load:400ms@>200% Load				
	Feed into the Grid voltage range	Not Available		195-253VAC		
	Feed into the Grid frequency range	Not Available		49-51±1Hz/59-61±1 Hz		
	Maximum conversion efficiency (DC/AC)	98%				
	PV Charging Mode	MPPT				Dual MPPT
	MAX.PV Input Power	2000W	3000W	5000W	7500W	2*5500W
	MPPT Tracking Range	60-500Vdc				90-500Vdc
	PV max Input current	13A	15A	18A	27A	18A /18A
	MAX PV Charging Current	100A		120A		150A
	MAX AC Charging Current	60A		100A		150A
	User Interface	Display & LED Indication	Graphical LCD Indicating Running Status & Grid ON Alarm / Inverter ON / Charging Status / Fault			
Battery Parameters		Battery SOC / Alarms / Indications etc.				
PV Parameters		PV voltage / MPPT Charger Current / Power / Indication etc.				
AC Parameters		Grid Voltage / Frequency / Power / Current / Indication etc.				
System Level Parameters		Mode of Operation / Active Faults / System Mimic etc.				
RS 232		5 Pin / Pitch 2.54 mm, Baud Rate 2400				
Parallel machine interface		No Parallel Function			Parallel Machine (Nwk) Function	
WARNING & PROTECTION	PV Side	Surge Protection & Fuse				
	Battery Side	Over / Under voltage Protection & Over Current Protection				
	Grid Side	Over / Under voltage & Frequency Protection & Over Current Protection & Surge Protection				
	Load Side	Overload & Short CKT Warning & Protection				
	System Protection	Over Temperature Trip & Circuit Breakers at all Paths / Manual Bypass				
Monitoring	Remote	Wi-fi Based RMS (Remote Monitoring System)				
		Mobile Applications & Web Based for Inverter				
	Local	Bluetooth Connectivity for Battery				
Environment Operating Condition	Operating Temperature	-10°C to 50°C				
	Storage Temperature	-15°C to 60°C				
	Humidity	Max 95% (Non Condensing)				
	Degree Of Protection	IP-21				
	Altitude	Altitude Not Over 1000m, Derating over 1000m, Max 4000m, Refer to IEC62040				
Physical	Net Weight	~30Kg	~65Kg	~70Kg	~120Kg	~250Kg
	Dimensions (L x B x H) mm	475 x 240 x 600	475 x 240 x 750		475 x 240 x 1060	600 x 360 x 1550

* Product specifications subject to change without notice.

Parameters / ESS		RACK MOUNT
ESS Parameters	Rated Inverter Capacity	11 kW - 50kW
	Rated Energy Storage	5.12 kWh - 51.2 kWh
Battery parameters	Rated voltage	51.2 V
	Rated Capacity	100Ah - 1000Ah
	Battery Type	Lifepo4
	No of Cycle	>3000
Inverter parameters	Input Sources	L+N+PE
	Voltage Range	90-280VAC±3V(Normal Mode)170-280VAC±3V (UPS Mode)
	Frequency	50Hz/60Hz (Auto Adaptive)
	Rated Output Voltage	220/230/240VAC
	Output Waveform	Pure Sine Wave
	Transfer Time (adjustable)	Computers(UPS Mode)10ms,Appliance(APL Mode)20ms
	Output Waveform	Battery mode11s@105% Load:2s@150%~200%Load:400ms@>200% Load
	Feed into the Grid voltage range	195-253VAC
	Feed into the Grid frequency range	49-51±1Hz/59-61±1 Hz
	Maximum conversion efficiency (DC/AC)	98%
	PV Charging Mode	Dual MPPT
	MAX.PV Input Power	2*5500W (Per 11kW Inverter)
	MPPT Tracking Range	90-500Vdc
	PV max Input current	18A /18A (Per 11kW Inverter)
	MAX PV Charging Current	150A (Per 11kW Inverter)
	MAX AC Charging Current	150A (Per 11kW Inverter)
User Interface	Display & LED Indication	Graphical LCD Indicating Running Status & Grid ON Alarm / Inverter ON / Charging Status / Fault
	Battery Parameters	Battery SOC / Alarms / Indications etc.
	PV Parameters	PV voltage / MPPT Charger Current / Power / Indication etc.
	AC Parameters	Grid Voltage / Frequency / Power / Current / Indication etc.
	System Level Parameters	Mode of Operation / Active Faults / System Mimic etc.
	RS 232	5 Pin / Pitch 2.54 mm, Baud Rate 2400
	Parallel machine interface	Parallel Machine (Nwk) Function
WARNING & PROTECTION	PV Side	Surge Protection & Fuse
	Battery Side	Over / Under voltage Protection & Over Current Protection
	Grid Side	Over / Under voltage & Frequency Protection & Over Current Protection & Surge Protection
	Load Side	Overload & Short CKT Warning & Protection
	System Protection	Over Temperature Trip & Circuit Breakers at all Paths / Manual Bypass
Monitoring	Remote	Wi-fi Based RMS (Remote Monitoring System)
		Mobile Applications & Web Based for Inverter
	Local	Bluetooth Connectivity for Battery
Environment Operating Condition	Operating Temperature	-10°C to 50°C
	Storage Temperature	-15°C to 60°C
	Humidity	Max 95% (Non Condensing)
	Degree Of Protection	IP-21
	Altitude	Altitude Not Over 1000m, Derating over 1000m, Max 4000m, Refer to IEC62040
Physical	Net Weight	~250Kg to 800kg
	Dimensions (L x B x H) mm	600 x 600 x 2000

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OUR COMPLETE RANGE OF ENERGY SOLUTIONS

