

ALL-IN-ONE ENERGY STORAGE SYSTEM



The convenient
all-in-one energy
storage solution for
business and home.

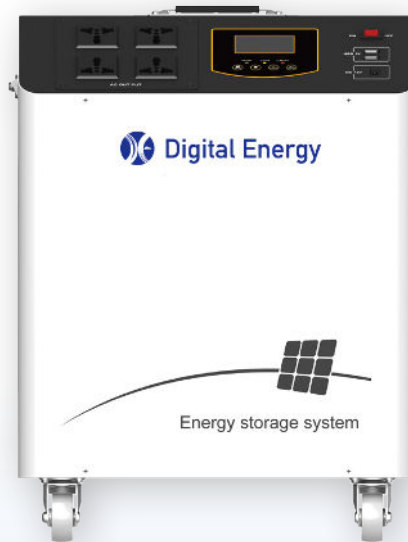


INVERTERS

WITH LITHIUM BATTERY STORAGE
DE1800 HM SERIES

Digital Energy hybrid inverters can output the direct current(DC) from the PV array into alternating current(AC), so your home or business loading can use it directly.

Features ground-breaking BYD LiFePO4 battery pack inside, with multi battery protection inbuilt, providing power solutions in many fields.



Digital Energy DE18-3024 all-in-one energy storage solution supports 3kW output for different load appliances. It's based on the original cabinet design, stacked with a 6,4kWh energy storage lithium battery and built in battery protection system. It fully retains the use of load power in residential, school, commercial and public utility applications.



The Digital Energy DE18-5248HM all-in-one ESS system is the ideal energy storage solution for home application. An inverter system is inbuilt to provide a one-stop service system, which can manage your home battery storage system more conveniently. The perfect emergency energy solution for homes, apartments, hotels, shopping centers.



Features higher capacities for greater compatibility with power-hungry devices and the latest in USB-C Power Delivery capable of charging larger USB devices like laptops.



Includes pre-installed charging optimisation module that functions as a maximum power point tracker (MPPT), resulting in up to 40% faster charge times.



With LiFePO4 lithium cells, known for stability and safety, monitored by a state-of-the-art battery management system that prevents overcharge, over-current and short circuiting.



Built in Multi safety protection that includes short circuit, overload and over-temperature and error code reporting.

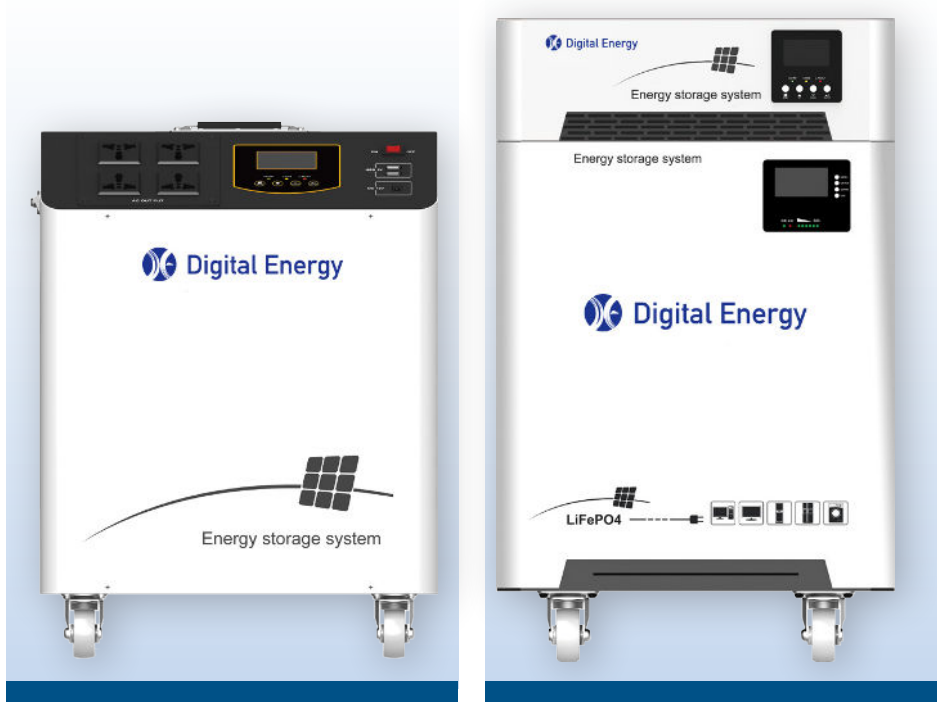


Digital Energy

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DE1800 HM SERIES

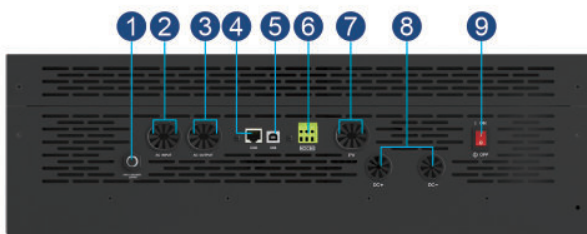
Stable, safe energy storage with higher capacity for power hungry devices.



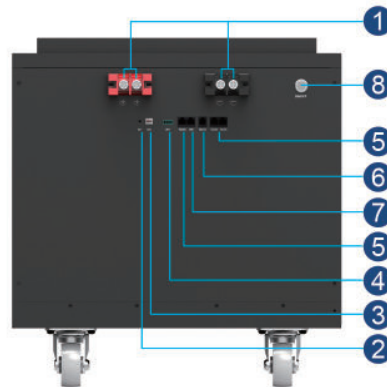
ENERGY	Efficient Bulb (5W)	Fan (45W)	Rice Cooker (60W)	Laptop (30W fully charged)	32 Inch Lcd TV (60W)	Refrigerator (140W)	Microwave (650W)
1kwh	200 HRS	22 HRS	16 HRS	33 HRS	16 HRS	7 HRS	1.5 HRS
2kwh	400 HRS	44 HRS	32 HRS	66 HRS	32 HRS	14 HRS	3 HRS
3kwh	600 HRS	67 HRS	48 HRS	99 HRS	48 HRS	21 HRS	4.5 HRS
6.4kwh	1280 HRS	142 HRS	106 HRS	213 HRS	106 HRS	46 HRS	10 HRS

The technical specifications of this document are subject to change without any notice

Input & Output Ports



- 1. Circuit breaker
- 2. AC input
- 3. AC output
- 4. RS485 communication port
- 5. USB port
- 6. Dry contact
- 7. PV input
- 8. Battery input
- 9. Power on/off switch



- 1. BAT port
- 2. RST port
- 3. ADS port
- 4. DRY port
- 5. RS485 communication port
- 6. RS232 communication port
- 7. CAN port
- 8. ON/OFF indicator

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*Input and Output Port indication is applicable to the 5kVA unit only.

INVERTER

WITH LITHIUM BATTERY STORAGE



		DE18-3024	DE18-5248 HM
Inverter	Rated power	3000W	5200W
	Output voltage waveform	Pure sine wave	Pure sine wave
	Output voltage regulation	230Vac ±5%	230Vac±5%
	Output frequency	50Hz / 60Hz (±0.2Hz)	50Hz or 60Hz (±0.2Hz)
	Peak efficiency	90%	93%
	Nominal DC input voltage	24Vdc (±0.3)	48Vdc
	Standby Consumption	< 25W	<25W
PV Input	PV max charging current	60A (±3A)	80A
	Combined charging current	80A (±4A)	140A
	Max efficiency	98.0% max	98.0% max
	PV array open circuit voltage	145VDC	450Vdc
	PV Array MPPT Voltage Range	30~120VDC	150~430Vdc
AC input	AC input voltage	230Vac ±5% (Kettle Cord)	230Vac ±5% (Hard Wired Terminal)
	Acceptable input voltage range	90-280VAC	170-280VAC
	Nominal input frequency	50Hz / 60Hz (Auto detection)	50Hz / 60Hz (Auto detection)
	Transfer time	10ms typical (UPS, VDE); 20ms typical (APL)	10ms typical (UPS, VDE); 20ms typical (APL)
AC Charge	Charging current @ Nominal input voltage	20A/30A (±4A)	60A
	Charging Algorithm	4-step (Li)	4-step (Li)
Output	AC output	230Vac (4x3 prong SA plugs)	230Vac (Hard Wired Terminal)
	USB (5V 2.4A)	DC output*2pcs	DC output*2pcs
	USB (12V 1A)	DC output*1pcs	DC output*1pcs
Lithium Battery	Energy	6400Wh	12000Wh
	Nominal voltage	25.6V	51.2V
	Battery capacity	250Ah	250Ah
	Standard charging and discharge current	100A	20-50A
	Maximum continuous charging & discharge current	200A	100A
	Operation temperature	Charge: 0~45°C Discharge: -10~60°C	Operation ambient temperature: -10~50°C Storage ambient temperature: 20~55°C
Dimension	Product Size (LxWxH) (mm)	351 x 300 x 538.5	/
	Packing Size (LxWxH) (mm)	439 x 388 x 690	/
	Net Weight (kg)	39.5	87
	Gross Weight (kg)	55	105

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