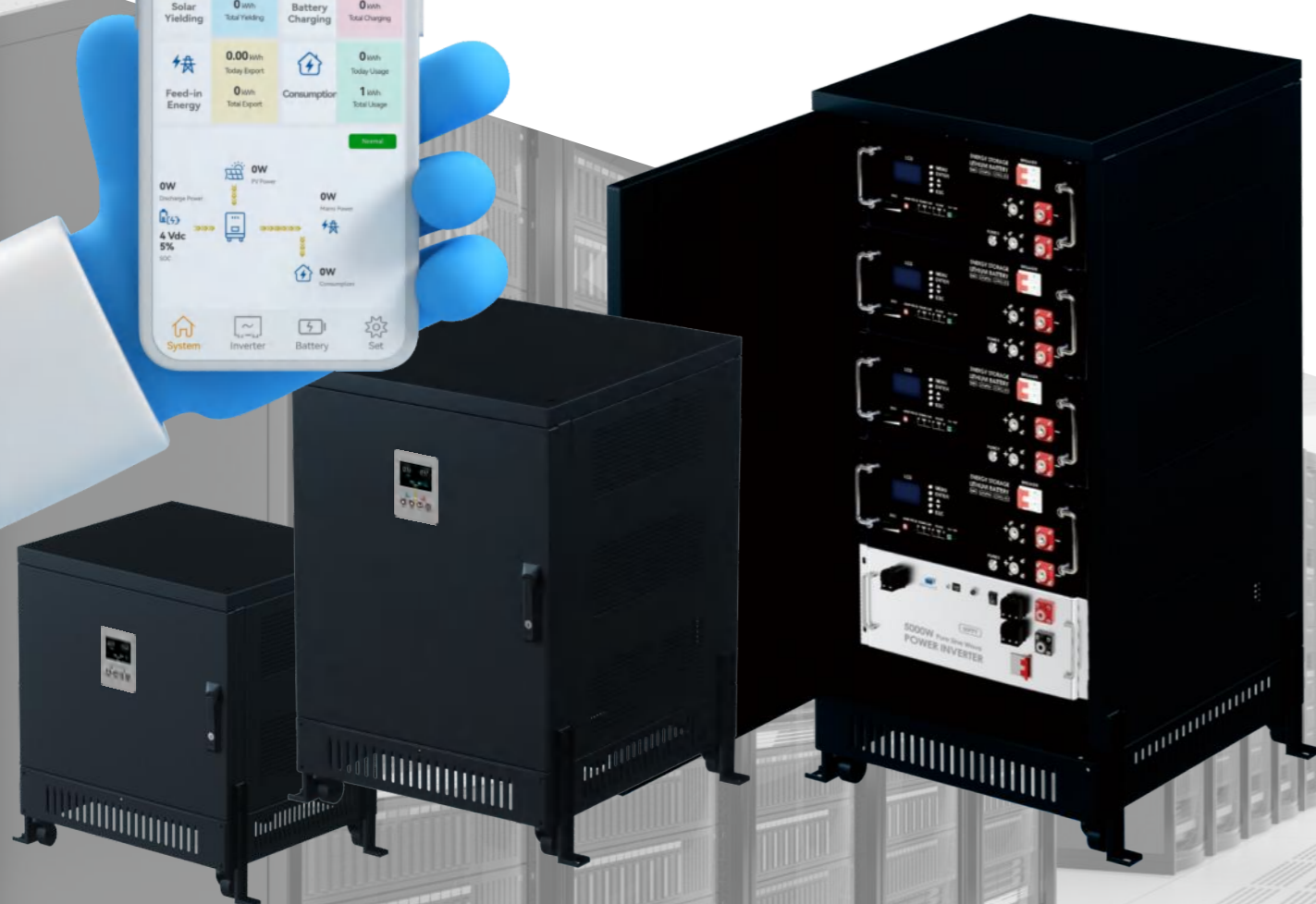
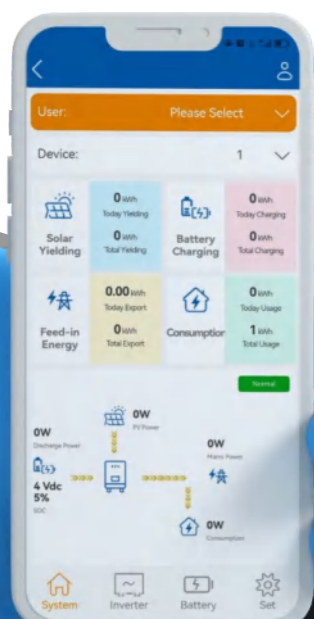


# ESS

## Rack/Cabinet Lithium Battery Energy Storage System

- Li-FePO<sub>4</sub>
- 3-8KW  
Out put
- APP  
Control
- V  
Customized  
High/Low voltage
- Customized  
capacity



The ESS system is a high-performance off-grid energy storage system independently developed by Dingke Energy. It uses high-quality lithium iron phosphate cells and is equipped with an intelligent BMS battery management system. It has long cycle life, high safety performance, good sealing, and is equipped with high-frequency off-grid the inverter, built-in MPPT controller, provides efficient and reliable energy solutions for PV off-grid power generation systems, homes PV storage systems, and industrial and commercial energy storage systems.

The system is equipped with a self-developed APP, supports IOS/Android mobile phones, remotely controls the charging and discharging of the ESS system, and real-time system operation data. When the system fails, it can be quickly eliminated and the effective power supply can be restored efficiently.

Model	C-ESS-5	C-ESS-10	C-ESS-15	C-ESS-20
Capacity	5.12KWh/5KW	10.24KWh/5KW	15.36KWh/5KW	20.48KWh/5KW
Standard discharge current	50A	50A	50A	50A
Max. discharge current	100A	100A	100A	100A
Working voltage range	43.2-57.6VDC	43.2-57.6VDC	43.2-57.6VDC	43.2-57.6VDC
Standard Voltage	51.2VDC	51.2VDC	51.2VDC	51.2VDC
Max. charging current	50A	50A	50A	50A
Max. charging voltage	57.6V	57.6V	57.6V	57.6V
Rated PV input voltage	360VDC			
MPPT tracking voltage range	120V-450V			
Max input voltage (VOC) at lowest temperature	500V			
Max input power	6000W			
Number of MPPT tracking paths	1Path			
DC input voltage range	42-60VDC			
Rated mains power input voltage	220VAC/230VAC/240VAC			
Grid power input voltage range	170VAC~280VAC (UPS mode) / 120VAC~280VAC (Inverter mode)			
Grid input frequency range	45Hz~55Hz (50Hz); 55Hz~65Hz (60Hz)			
Inverter output efficiency	94%(MAX)			
Inverter output voltage	220VAC±2%/230VAC±2%/240VAC±2%(Inverter mode)			
Inverter output frequency	50Hz±0.5 or 60Hz±0.5(Inverter mode)			
Inverter output waveform	Pure sine wave			
Grid output efficiency	>99%			
Max mains charging current	60A			
Max PV charging current	100A			
Max charging current (Grid+PV)	100A			
Optional mode	Grid priority/PV priority/Battery priority			
Warranty	5~10Years			
Communication	Optional: RS485/RS232/CAN WiFi/4G/Bluetooth			

\*Voltage, capacity, size/color customization, OEM/ODM services can be provided according to customer needs