Wuhan Dingcheng New Energy Co., Ltd.



Smart Energy Management

Zero energy waste with PI, IR or smart meter

Easy Installation

Plug & play, DIY setup

Off-grid Power Output

3600W continuous output in off-grid mode for emergency applications

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AC-Coupled Design

Compatible with 99% micro inverters

Cost Optimization

Smart Scheduling with TOU & Dynamic Tariffs

Reliable Backup Power

UPS-level transfer within 10 ms, 6000+ cycles, IP65 protection rating

Product	5.12 kWh
BATTERY	
Battery Type	LiFePO4
Nominal Energy (kWh)	5.12
Nominal Capacity (Ah)	100
Battery Voltage Range (Vd.c.)	44.8-57.6
Nominal Voltage (Vd.c.)	51.2
Max. Battery Voltage (Vd.c.)	57.6
Cycle Life*	≥6000
Depth of Discharge (DOD)	95%
OFF-GRID	
Nominal Output Voltage (Va.c.)	230
Nominal Off-Grid Output Power (W)	3600
Max. Off-Grid Apparent Power (VA)**	4000
Nominal Output Frequency (Hz)	50/60
Max. Efficiency (%)	94.9%
Max. Power From Microinverter (W)	800
Over-Voltage Protection	YES
Short-Circuit Protection	YES
Over-Temperature Protection	YES
ON-GRID	
Nominal Output Power to Grid (W)	3600
Nominal Apparent Power to Grid (VA)	3600
Max. Apparent Power to Grid (VA)	3600
Max. Power from Grid (Battery + Bypass) (W)	5100
Grid Connection	L / N / PE
Nominal Output Frequency (Hz)	50/60
Nominal Output Voltage (Va.c.)	230
Power Factor	0.8 Leading - 0.8 Lagging (Adjustable)
THDi (at Nominal Power)	<3%
Nominal AC Current to Grid (Aa.c.)	15.7
Max. AC Current to Grid (Aa.c.)	15.7
BACKUP PERFORMANCE	
Grid-to-Off-Grid Transfer Time (ms)	≤10
Off-Grid-to-Grid Transfer Time (ms)	≤10
GENERAL DATA	
Dimensions (W×H×D, mm)	485×370×245
Weight (kg)	65
IP Rating	IP65
Display	LCD / APP / Web
Communication	Wi-Fi / Bluetooth / LAN / RS485
Topology	High-Frequency Isolated Topology
Noise (dB)	<35
Operating Temperature Range (°C)	-20-55
Relative Humidity (%)	0-95%
Altitude (m)	≤3000
Cooling Method	Natural Cooling
Overvoltage Category	DC II, AC III
Protective Class	Class I
CERTIFICATIONS & STANDARDS	
Grid Regulation	EN 50549-1/10, VDE-AR-N4105
Safety Regulation	IEC/EN62477-1, EN 18031-1, IEC/EN62619, UN38.3
EMC	IEC/EN 61000-6-1/3, EN 301489-1/17, EN 300328, EN 62311

* Test conditions: 0.2C charge/discharge at 25°C, 95% DoD, 70% EOL.
** Peak/off-grid output capability is subject to system configuration and local regulations.
Information may be subject to change during product improvement.