

AC POWER SOLUTIONS

ECube

ENERGY STORAGE SYSTEM



High security:

It uses a lithium iron phosphate battery and a built-in fire protection unit to ensure the safe and reliable operation of the system.

Full Seamless Parallel Separation Switching:

Built-in 60KW parallel isolation switching module, supports full seamless switching and protects critical loads.

High degree of integration:

It integrates battery system, MPPT controller, PCS energy module, STS parallel separation switching module and EMS energy management system for quick installation and deployment.

Fast installation:

It has a built-in high-voltage solar collector box, and can be easily connected by simply connecting the solar panel serially and connecting it to the device.

Cabinet level scalability:

supports 5 cabinet-level scalability and has a network capacity of 250KW/350KWH.

Flexible deployment:

Users can do distributed deployments and deploy as needed.

Direct solar panel connection:

It has a built-in 60KW MPPT controller and supports up to 10 paths of solar input.

Long cycle life:

It uses a lithium iron phosphorous battery and has a cycle life of over 8000 times, guaranteeing a system life of over 15 years.

Easy maintenance:

The fully modular design allows for replacement as needed.

ECube AC Solution

The Renon ECube AC 60kWh is the perfect energy storage solution for businesses requiring smaller capacity systems. State-of-the-art AC microgrid technology and modular design allow customization and scaling as needed. Advanced safety features and remote monitoring capabilities ensure a safe and reliable system at all times. Upgrade your C&I energy storage game with the Renon Ecube AC 60kWh.

Battery specifications

Cell capacity (Ah)	100
battery module	1P16S
combination of modules	12 modules in series
Rated capacity (kWh)	61.44
Rated voltage (V)	614.4V
Voltage range (V)	518.4~710.4
Charge/discharge C-rate	≤1C
DOD	90% DoD
cycle life	>8000 cycles
Cooling method	air conditioning
Firefighting equipment	Aerosol fire extinguishing equipment

AC input specifications

Rated voltage (Vac)	230/400, 3P+N+PE
Maximum continuous input current (Aac)	86
frequency (Hz)	50
Rated power (kW)	50
Maximum input power (kW)	60
Maximum active power (kW)	60
Power factor	0.8cap-0.8ind

System characteristics

peak efficiency	98.5%
Communication method	CAN, RS485, Wi-Fi
service life	10 years
Certification (to be obtained)	UL1973/UL9540/ UL9540A/IEC62619/UN38.3
safety certification	CE
EMC standards	FCC

PV input parameters (optional)

Maximum input voltage (V)	900
Rated voltage (V)	350
Voltage range (V)	200-900
MPPT	1
Rated power (kW)	60

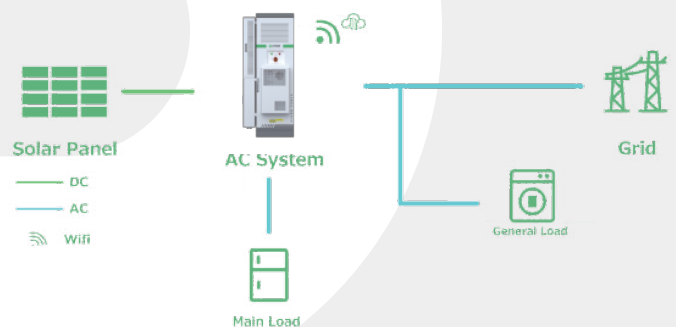
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Maximum continuous output current (Aac)	86
Rated power (kW)	50
Maximum output power (kW)	60
Maximum active power (kW)	60
Unbalanced load capacity	100%
overload capacity	35 °C 110%-120%@10 min,120%@1 min
switching time	≤ 20ms

General specifications

Dimensions (L*H*W) (mm)	TBD
Weight (kg)	TBD
Cooling method	air conditioning
elevation	>3000m
Noise level @1m	<75 dB
protection level	IP55
Operating temperature range	-20°C to 55°C
humidity	0 to 95%, non-condensing

System Layout



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