KEYPOWER

Q318

Mobile Energy Storage System

Mobile energy, intelligent control.



318 kWh
LFP storage capacity

105–250 kW
PCS options

01 Ready to install
Preassembled and precommissioned, with optional PCS, STS and MPPT.

02 Precision liquid cooling
Cell-to-cell temperature difference ≤2.5 °C for consistent thermal performance.

03 Protection at every level
Early thermal detection protects the pack, rack and system.

04 Grid-connected or islanded
STS-equipped models transfer seamlessly in less than 20 ms.

05 Remote monitoring
Cloud and mobile access, real-time alarms and remote updates.

06 Scalable design
Expand in parallel, with up to eight units operating in island mode.

KEYPOWER

Engineered for your requirements

318 kWh of liquid-cooled LFP storage with configurable power conversion, transfer switching and PV input.



BATTERY / DC	
Cell type / rating	LFP · 3.2 V / 222 Ah
Battery configuration	224S2P
Rated capacity	318 kWh
Rated voltage range	680–795 V

AC SPECIFICATIONS	
Rated voltage / tolerance	400 V / −15% to +15%
AC output configuration	3W+N+PE
Rated frequency	50 Hz
Power factor	0.99
Power factor range	−1 inductive / +1 capacitive
Current harmonic distortion	<2% at rated power
Overload capacity	110% continuous
Maximum efficiency	≥98%
Transfer time	<20 ms
Island-mode voltage harmonics	<3% with a linear load

SYSTEM AND INSTALLATION	
Dimensions (W × D × H)	3,000 × 1,250 × 1,410 mm
Weight	3,200 kg
Ingress / corrosion rating	IP54 / C3, optional C5
Operating humidity	0–100%
Operating temperature	−20 °C to +50 °C, with derating above 45 °C
Max. operating altitude	3,000 m
Thermal management	Intelligent liquid cooling
Noise level	≤70 dB(A) at 1 m
Fire protection system	Flammable gas, smoke and heat detectors, audible alarm, aerosol, sprinkler and ventilation
Communications	Ethernet / Modbus TCP
Listed standards	IEC 62619, IEC 63056, IEC 62040, IEC 62477, UN 38.3
Maximum parallel units	8 units in island mode

PCS OPTIONS · GRID-CONNECTED / ISLAND MODE				
Rated output power	105 kW	125 kW	210 kW	250 kW
Maximum apparent power	116 kVA	137.5 kVA	232 kVA	275 kVA
Maximum output current	167 A	200 A	334 A	400 A

OPTIONAL MPPT		
Rated power	63 kW	126 kW
Continuous overload power	70 kW	140 kW
Maximum current	160 A	320 A
Input voltage / max. efficiency	400–900 V / 99%	

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POWER WHEREVER IT IS NEEDED

The Q318 adapts to the power needs of different sites.



CONCERTS AND EVENTS



DISASTER RELIEF AND EMERGENCIES



GRID DISTURBANCES AND POWER OUTAGES



CONSTRUCTION AND TEMPORARY WORKSITES



MOBILE ELECTRIC VEHICLE CHARGING



TELECOM TOWERS AND REMOTE INFRASTRUCTURE



REMOTE AND OFF-GRID INDUSTRIAL OPERATIONS



Q318 · MOBILE ENERGY STORAGE

Images are illustrative.

KEYPOWER

LET'S DEFINE YOUR ENERGY STORAGE NEEDS

Together, we can assess the power, capacity and operating profile that suit your home.

35+ years
Key Holding heritage

600+ MWp
EPC experience

R&D
Local innovation

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