LONGi

500~1250kW/1672~2508kWh Compact Microgrid BESS

OneNexus M20C

Compact Power for Microgrids



POWER CONTINUITY

- 20 ms Grid / Off-grid Transfer
- Generator & BESS Parallel Operation
- Grid-forming & Black Start

HIGHLY INTEGRATED

- Built-in Grid & DC Interfaces
- Optional Integrated STS
- Built-in EMS

LOWER ENERGY COST

- Optimized for Solar Self-consumption
- Flexible 3-8hours Configurations
- DC-coupled Architecture — Higher Efficiency & Lower LCOE

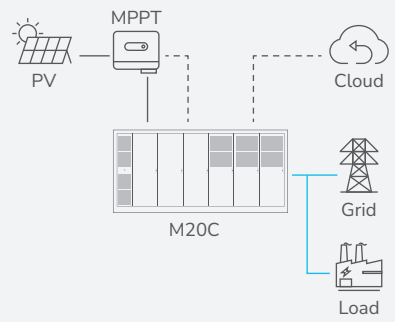
EASY DEPLOYMENT

- External MPPT — Flexible PV Installation
- IP66 PCS & Battery System — Longer Service Life
- Up to 2 Units in Parallel

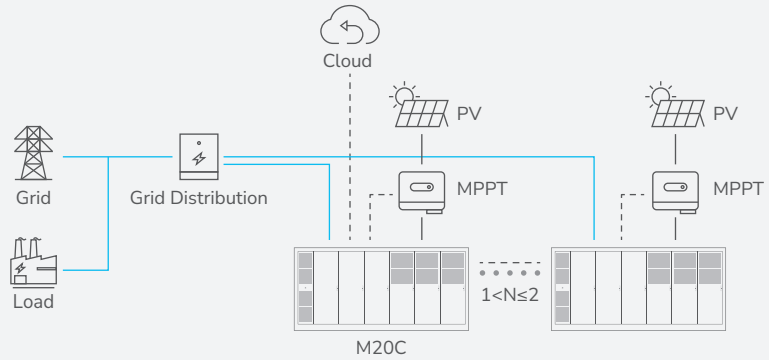
SYSTEM DIAGRAM

AC Line DC Line Communication Line

Single Unit



Multi Units



PRODUCT SPECIFICATIONS

Model		M20C
Battery	Battery Type	LiFePO4
	Rated Energy (kWh)	1672~2508
	Cell Cycle Life (70% EOL)	>8000
AC	Rated Power (kW/kVA)	500~1250
	Rated Current (A)	721~1804
	Rated AC Voltage (V)	380 / 400
	Rated Frequency (Hz)	50 / 60 (5 ~ -5)
	On-Off-grid Switch Time (ms)	20
	THDv (@ Linear Load)	<3%
	Connection	3+N+PE
Efficiency	Battery Round-trip Efficiency	≥93.5%
	Battery to AC Efficiency(@Rated Power)	≥98.0%
General Parameters	Communication	Wi-Fi / Ethernet / CAN / RS485
	Topology	Transformerless
	Operating Ambient Temperature (°C)	-20 ~ +50
	Operating Ambient Humidity (%)	5–95 (No Condensing)
	Cooling Method	Liquid Cooling(Battery), Air Cooling(PCS)
	Altitude (m)	<3000
	Ingress Protection	IP55 (Enclosure), IP66 (PCS), IP67 (Battery)
	Corrosion Protection	≥C4
	Dimensions (L×W×H) (mm)	6096×2438×2896
	Weight (T)	20.1~25.8
	Grid Connection Standard	AS/NZS 4777.2:2020, VDE4110, G99, EN 50549-1&2/EN 50549-10
	Certification	CE, UN 38.3

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