LONGi

| 250kW/522kWh Next-Gen Microgrid BESS |

OneNexus M5

Powered by Innovative SLD Architecture



POWER CONTINUITY

- 0 ms Grid / Off-grid Transfer
- 0 ms Generator Cut-in / Cut-off
- Grid-forming & Black Start

HIGHLY INTEGRATED

- Built-in Grid, Generator & PV MPPT Interfaces
- Compatible with Various Generators
- Built-in EMS

LOWER ENERGY COST

- Utility Grid Boost — Avoid Costly Grid Upgrades
- Smaller Generator Sizing & Up to 80% Fuel Savings
- DC-coupled Architecture — Higher Efficiency & Lower LCOE

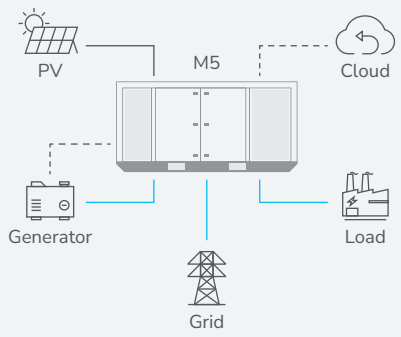
EASY DEPLOYMENT

- All-in-One Design — Plug & Play Microgrid Deployment
- IP66 PCS & Battery System — Longer Service Life
- Up to 25 Units in Parallel

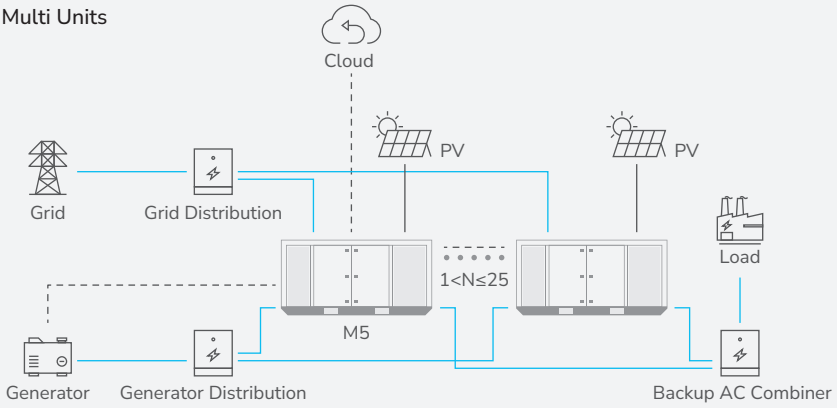
SYSTEM DIAGRAM

AC Line DC Line Communication Line

Single Unit



Multi Units



PRODUCT SPECIFICATIONS

Model		M5
DC Input (PV)	Max. PV Array Power (kWp)@STC	250
	Max. DC Voltage (V)	1000
	MPPT Voltage Range (V)	150~950
	Rated DC Voltage (V)	600
	Start Voltage (V)	180
	Max. DC Input Current (A)	10 × 42
	Max. DC Short Circuit Current (A)	10 × 60
	MPPT Number/Max. Input Strings	10/20
Battery Parameters	Battery Type	LiFePO4
	Rated Energy (kWh)	522
	Cell Cycle Life (70% EOL)	>8000
AC	Rated Power (kW/kVA)	250 / 250
	Rated Current (A)	360
	Rated AC Voltage (V)	380 / 400
	Rated Frequency (Hz)	50 / 60
	On-Off-grid Switch Time (ms)	0
	THDv (@ Linear Load)	<3%
	Connection	3+N+PE, Quick-plug Connector
Generator Input	Rated Power (kW)	125
	Rated Current (A)	189.9/180.4
	Rated Voltage (V)	3+N+PE, 380/400
	Rated Frequency (Hz)	50/60
Efficiency	Battery Round-trip Efficiency	≥93.5%
	Battery to AC Efficiency(@Rated Power)	≥98.0%
General Parameters	Communication	Wi-Fi / Ethernet / CAN / RS485
	Operating Temperature Range (°C)	-20 ~ +50
	Operating Ambient Humidity (%)	5–95 (No Condensing)
	Cooling Method	Battery(Liquid Cooling), Inverter(Air Cooling)
	Altitude (m)	≤3000
	Ingress Protection	IP55 (Enclosure), IP66 (Inverter), IP66 (Battery)
	Corrosion Protection	≥C4
	Dimensions (L×W×H) (mm)	3620×1903×1760
	Weight (kg)	6,115
	Certification	CE, UN 38.3

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LONGi

| 250kW/522kWh Next-Gen Microgrid BESS |

OneNexus M5S

Powered by Innovative SLD Architecture



POWER CONTINUITY

- 0 ms Grid / Off-grid Transfer
- 0 ms Generator Cut-in / Cut-off
- Grid-forming & Black Start

HIGHLY INTEGRATED

- Built-in Grid, Generator & DC Interfaces
- Compatible with Various Generators
- Built-in EMS

LOWER ENERGY COST

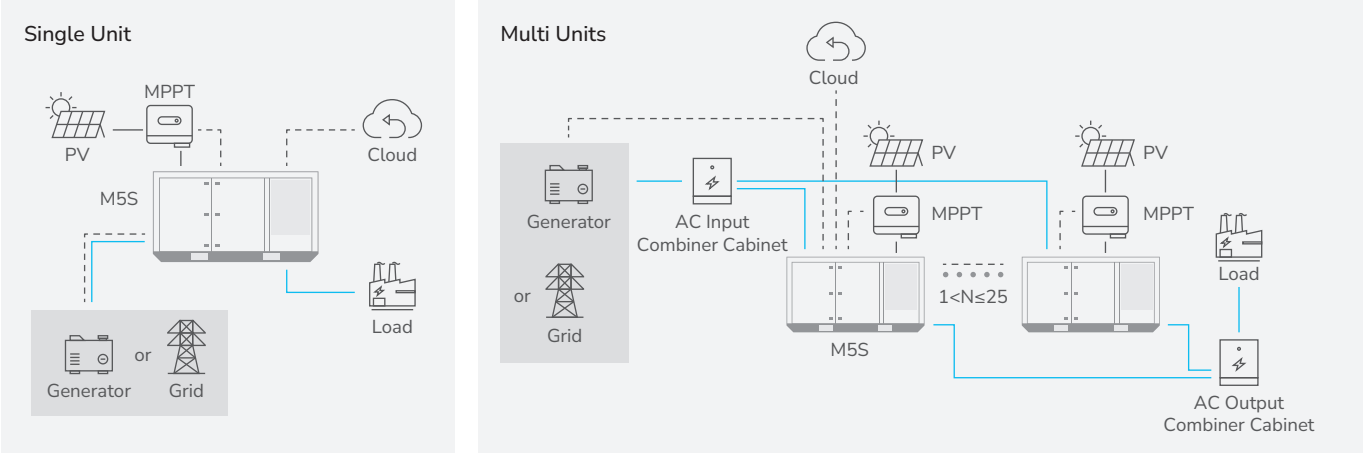
- Utility Grid Boost — Avoid Costly Grid Upgrades
- Smaller Generator Sizing & Up to 80% Fuel Savings
- DC-coupled Architecture — Higher Efficiency & Lower LCOE

EASY DEPLOYMENT

- External MPPT — Flexible PV Installation
- IP66 PCS & Battery System — Longer Service Life
- Up to 25 Units in Parallel

SYSTEM DIAGRAM

AC Line — DC Line ------ Communication Line



PRODUCT SPECIFICATIONS

Model		M5S
Battery Parameters	Battery Type	LiFePO4
	Rated Energy (kWh)	522
	Cell Cycle Life (70% EOL)	>8000
AC	Rated Power (kW/kVA)	250 / 250
	Rated Current (A)	360
	Rated AC Voltage (V)	380 / 400
	Rated Frequency (Hz)	50 / 60
	On-Off-grid Switch Time (ms)	0
	THDv (@ Linear Load)	<3%
	Connection	3+N+PE, Quick-plug Connector
Generator Input	Rated Power (kW)	250
	Rated Current (A)	360
	Rated Voltage (V)	3+N+PE, 380/400
	Rated Frequency (Hz)	50/60
Efficiency	Battery Round-trip Efficiency	≥93.5%
	Battery to AC Efficiency(@Rated Power)	≥98.0%
General Parameters	Communication	Wi-Fi / Ethernet / CAN / RS485
	Operating Temperature Range (°C)	-20 ~ +50
	Operating Ambient Humidity (%)	5–95 (No Condensing)
	Cooling Method	Battery(Liquid Cooling), Inverter(Air Cooling)
	Altitude (m)	≤3000
	Ingress Protection	IP55 (Enclosure), IP66 (PCS), IP66 (Battery)
	Corrosion Protection	≥C4
	Dimensions (L×W×H) (mm)	3170×1903×1760
	Weight (kg)	5813
	Certification	CE, UN 38.3

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| 250kW/522kWh Compact Microgrid BESS |

OneNexus M5C

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 2-hour & 4-hour Configurations
- DC-coupled Architecture — Higher Efficiency & Lower LCOE

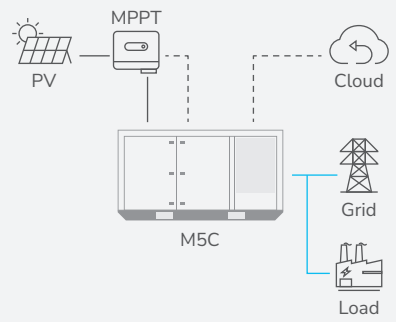
EASY DEPLOYMENT

- External MPPT — Flexible PV Installation
- IP66 PCS & Battery System — Longer Service Life
- Up to 25 Units in Parallel

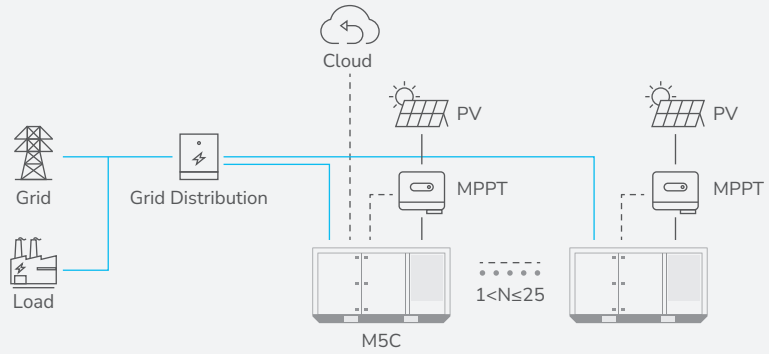
SYSTEM DIAGRAM

AC Line — DC Line ------ Communication Line

Single Unit



Multi Units



PRODUCT SPECIFICATIONS

Model		M5C
Battery Parameters	Battery Type	LiFePO4
	Rated Energy (kWh)	522
	Cell Cycle Life (70% EOL)	>8000
AC	Rated Power (kW/kVA)	250 / 250
	Rated Current (A)	360
	Rated AC Voltage (V)	380 / 400
	Rated Frequency (Hz)	50 / 60
	On-Off-grid Switch Time (ms)	<20
	THDv (@ Linear Load)	<3%
	Connection	3+N+PE, Quick-plug Connector
Efficiency	Battery Round-trip Efficiency	≥93.5%
	Battery to AC Efficiency(@Rated Power)	≥98.0%
General Parameters	Communication	Wi-Fi / Ethernet / CAN / RS485
	Operating Temperature Range (°C)	-20 ~ +50
	Operating Ambient Humidity (%)	5–95 (No Condensing)
	Cooling Method	Battery(Liquid Cooling), Inverter(Air Cooling)
	Altitude (m)	≤3000
	Ingress Protection	IP55 (Enclosure), IP66 (PCS), IP66 (Battery)
	Corrosion Protection	≥C4
	Dimensions (L×W×H) (mm)	3170×1903×1760
	Weight (kg)	5500
	Certification	CE, UN 38.3

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