LONGi

| Microgrid BESS 50kW/104kWh |

OneNexus H2A



POWER CONTINUITY

- 10 ms Seamless On/Off-grid Switching
- Black Start Capability
- AI-powered Energy Management

SMART MICROGRID

- PV, Battery and Generator Coordination
- High IP Grade Inverter and Battery
- Compatible with Various Generators

ENERGY OPTIMIZATION

- Maximize PV Utilization
- Reduce Generator Runtime
- Lower Fuel Consumption and Operating Costs

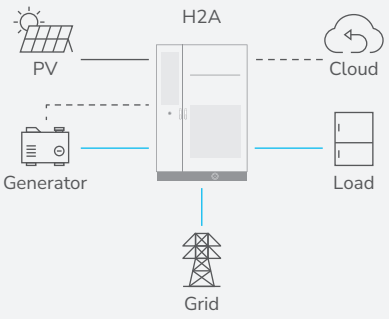
FLEXIBLE DEPLOYMENT

- All-in-One Design with Built-in EMS
- Plug-and-play Installation
- Up to 6 Units in Parallel

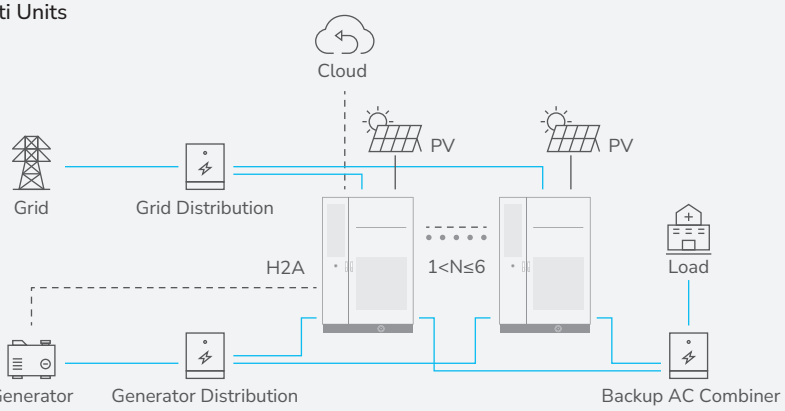
SYSTEM DIAGRAM

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

Single Unit



Multi Units



PRODUCT SPECIFICATIONS

Model		H2A
DC Input (PV)	Max. PV Array Power (kWp)@STC	100
	Max. DC Voltage (V)	1000
	MPPT Voltage Range (V)	150 ~ 850
	Rated DC Voltage (V)	600
	Start Voltage (V)	180
	Max. DC Input Current (A)	4×40
	Max. DC Short Circuit Current (A)	4×60
	MPPT Number/Max. Input Strings	4 / 8
Battery Parameters	Battery Type	LiFePO4
	Rated Energy (kWh)	104
	Max. Charging/Discharging Current (A)	157
AC	Rated Power (kW)	50
	Rated Current (A)	72.2
	Rated Voltage (V)	3+N+PE,380/400
	Rated Frequency (Hz)	50, 60
	On-off-grid Switch Time (ms)	10
	Total Harmonic Distortion (THDi)	<3%
	Connection	3+N+PE
Generator Input	Rated Power (kW)	50
	Rated Current (A)	76/72.2
	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	-25°C ~ +60°C
	Cooling Method	Battery(Liquid Cooling), Inverter(Air Cooling)
	Ambient Humidity (%)	0 - 100(No Condensing)
	Altitude (m)	≤3000
	Corrosion Protection	≥C4
	Ingress Protection	IP55 (Enclosure), IP66 (Inverter), IP66 (Battery)
	Dimensions (H×W×D) (mm)	2140×1312×1550
	Weight (kg)	1,766
	Certification	CE, UN 38.3, IEC, UL 9540A
	Packaging	7pcs per 40'HC /3pcs per 20'GP

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| Microgrid BESS 60kW/156kWh |

OneNexus H2B



POWER CONTINUITY

- 10 ms Seamless On/Off-grid Switching
- Black Start Capability
- AI-powered Energy Management

SMART MICROGRID

- PV, Battery and Generator Coordination
- High IP Grade Inverter and Battery
- Compatible with Various Generators

ENERGY OPTIMIZATION

- Maximize PV Utilization
- Reduce Generator Runtime
- Lower Fuel Consumption and Operating Costs

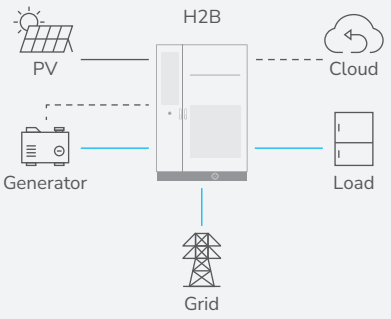
FLEXIBLE DEPLOYMENT

- All-in-One Design with Built-in EMS
- Plug-and-play Installation
- Up to 6 Units in Parallel

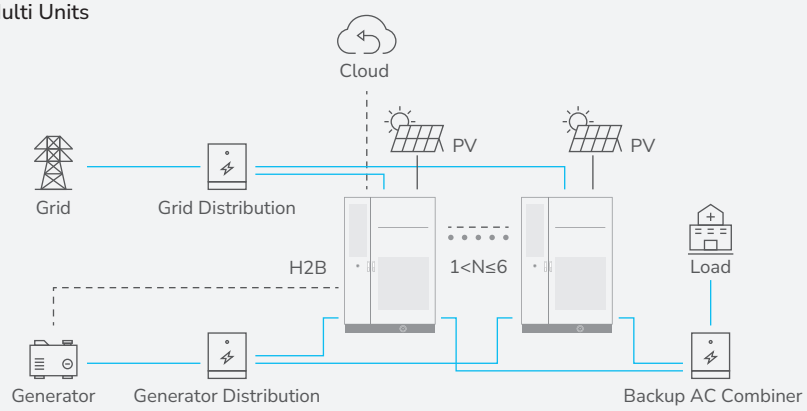
SYSTEM DIAGRAM

AC Line DC Line Communication Line

Single Unit



Multi Units



PRODUCT SPECIFICATIONS

Model		H2B
DC Input (PV)	Max. PV Array Power (kWp)@STC	100
	Max. DC Voltage (V)	1000
	MPPT Voltage Range (V)	150 ~ 850
	Rated DC Voltage (V)	600
	Start Voltage (V)	180
	Max. DC Input Current (A)	4×40
	Max. DC Short Circuit Current (A)	4×60
	MPPT Number/Max. Input Strings	4 / 8
Battery Parameters	Battery Type	LiFePO4
	Rated Energy (kWh)	156
	Max. Charging/Discharging Current (A)	157
AC	Rated Power (kW)	60
	Rated Current (A)	86.6
	Rated Voltage (V)	3+N+PE,380/400
	Rated Frequency (Hz)	50, 60
	On-off-grid Switch Time (ms)	10
	Total Harmonic Distortion (THDi)	<3%
	Connection	3+N+PE
Generator Input	Rated Power (kW)	60
	Rated Current (A)	157.5/150.6
	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	-25°C ~ +60°C
	Cooling Method	Battery(Liquid Cooling), Inverter(Air Cooling)
	Ambient Humidity (%)	0 - 100(No Condensing)
	Altitude (m)	≤3000
	Corrosion Protection	≥C4
	Ingress Protection	IP55 (Enclosure), IP66 (Inverter), IP66 (Battery)
	Dimensions (H×W×D) (mm)	2140×1312×1550
	Weight (kg)	2,099
	Certification	CE, UN 38.3, IEC, UL 9540A
	Packaging	7pcs per 40'HC /3pcs per 20'GP

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| Microgrid BESS 100kW/208kWh |

OneNexus H2C



POWER CONTINUITY

- 10 ms Seamless On/Off-grid Switching
- Black Start Capability
- AI-powered Energy Management

SMART MICROGRID

- PV, Battery and Generator Coordination
- High IP Grade Inverter and Battery
- Compatible with Various Generators

ENERGY OPTIMIZATION

- Maximize PV Utilization
- Reduce Generator Runtime
- Lower Fuel Consumption and Operating Costs

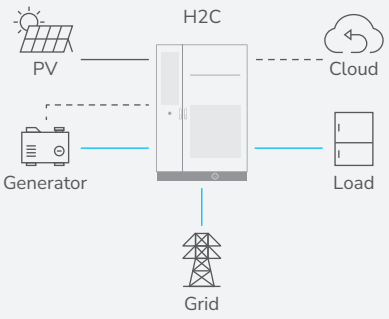
FLEXIBLE DEPLOYMENT

- All-in-One Design with Built-in EMS
- Plug-and-play Installation
- Up to 6 Units in Parallel

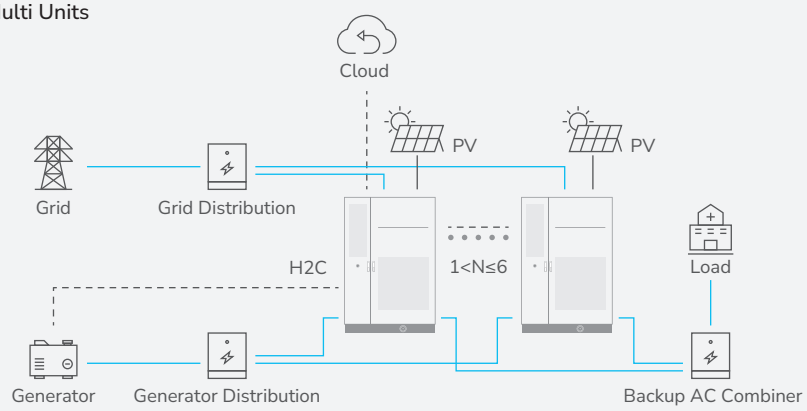
SYSTEM DIAGRAM

AC Line DC Line Communication Line

Single Unit



Multi Units



PRODUCT SPECIFICATIONS

Model		H2C
DC Input (PV)	Max. PV Array Power (kWp)@STC	200
	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)	208
	Max. Charging/Discharging Current (A)	157
AC	Rated Power (kW)	100
	Rated Current (A)	144.3
	Rated Voltage (V)	3+N+PE,380/400
	Rated Frequency (Hz)	50, 60
	On-off-grid Switch Time (ms)	10
	Total Harmonic Distortion (THDi)	<3%
	Connection	3+N+PE
Generator Input	Rated Power (kW)	100
	Rated Current (A)	151.9/144.3
	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	-25°C ~ +60°C
	Cooling Method	Battery(Liquid Cooling), Inverter(Air Cooling)
	Ambient Humidity (%)	0 - 100(No Condensing)
	Altitude (m)	≤3000
	Corrosion Protection	≥C4
	Ingress Protection	IP55 (Enclosure), IP66 (Inverter), IP66 (Battery)
	Dimensions (H×W×D) (mm)	2140×1447×1550
	Weight (kg)	2,432
	Certification	CE, UN 38.3, IEC, UL 9540A
	Packaging	7pcs per 40'HC /3pcs per 20'GP

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| Microgrid BESS 125kW/261kWh |

OneNexus H2D



POWER CONTINUITY
- 10 ms Seamless On/Off-grid Switching
- Black Start Capability
- AI-powered Energy Management

SMART MICROGRID
- PV, Battery and Generator Coordination
- High IP Grade Inverter and Battery
- Compatible with Various Generators

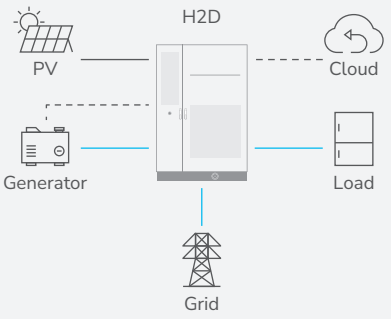
ENERGY OPTIMIZATION
- Maximize PV Utilization
- Reduce Generator Runtime
- Lower Fuel Consumption and Operating Costs

FLEXIBLE DEPLOYMENT
- All-in-One Design with Built-in EMS
- Plug-and-play Installation
- Up to 6 Units in Parallel

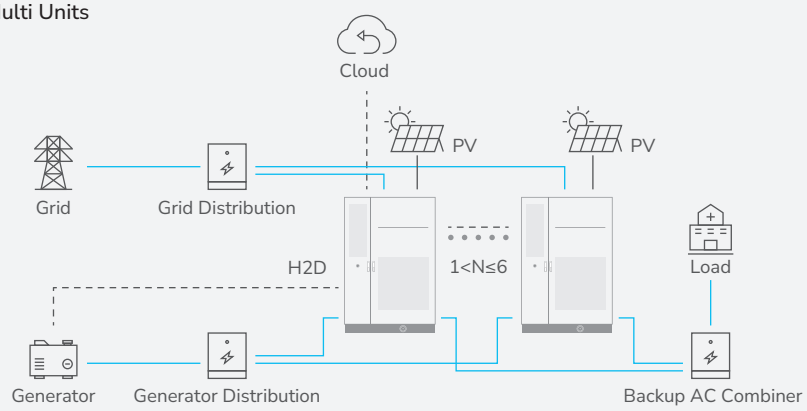
SYSTEM DIAGRAM

AC Line DC Line Communication Line

Single Unit



Multi Units



PRODUCT SPECIFICATIONS

Model		H2D
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)	261
	Max. Charging/Discharging Current (A)	157
AC	Rated Power (kW)	125
	Rated Current (A)	180.4
	Rated Voltage (V)	3+N+PE,380/400
	Rated Frequency (Hz)	50, 60
	On-off-grid Switch Time (ms)	10
	Total Harmonic Distortion (THDi)	<3%
	Connection	3+N+PE
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	-25°C ~ +60°C
	Cooling Method	Battery(Liquid Cooling), Inverter(Air Cooling)
	Ambient Humidity (%)	0 - 100(No Condensing)
	Altitude (m)	≤3000
	Corrosion Protection	≥C4
	Ingress Protection	IP55 (Enclosure), IP66 (Inverter), IP66 (Battery)
	Dimensions (H×W×D) (mm)	2140×1447×1550
	Weight (kg)	2,765
	Certification	CE, UN 38.3, IEC, UL 9540A
	Packaging	7pcs per 40'HC /3pcs per 20'GP

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