

MULTIGRID-H

SERIES

30-500 kW

HYBRID STORAGE CONVERTER



MINE
OFF GRID



ISLAND
OFF GRID



VILLAGES
WITHOUT
ELECTRICITY



FARM
OFF GRID



Power Conversion System Integrated with DC/DC Converter

- + Various Working Modes can be Set Flexibly
- + Flexible Battery Type (Li-ion, Lead-acid)
- + PV Controller can be Expanded to Facilitate Flexible Configuration of Photovoltaic Capacity
- + Integrated Scheme to Support Simultaneous Access of Loads, Batteries, Power Grids, Diesel Generators and Photovoltaics
- + Prediction of Battery Capacity and Discharge Time
- + CAN and RS485 Communication Interface, Modbus Protocol
- + Seamless Transfer Between On and Off Grid via Build-in Transfer Switch
- + Strong Load Adaptability of Built-in Isolation Transformer
- + Perfect Protection Function to Protect Inverters and Batteries

Flexible

- + Various working modes can be set flexibly.
- + Flexible battery type (li-ion, lead-acid).
- + PV controller can be expanded to facilitate flexible configuration of photovoltaic capacity.

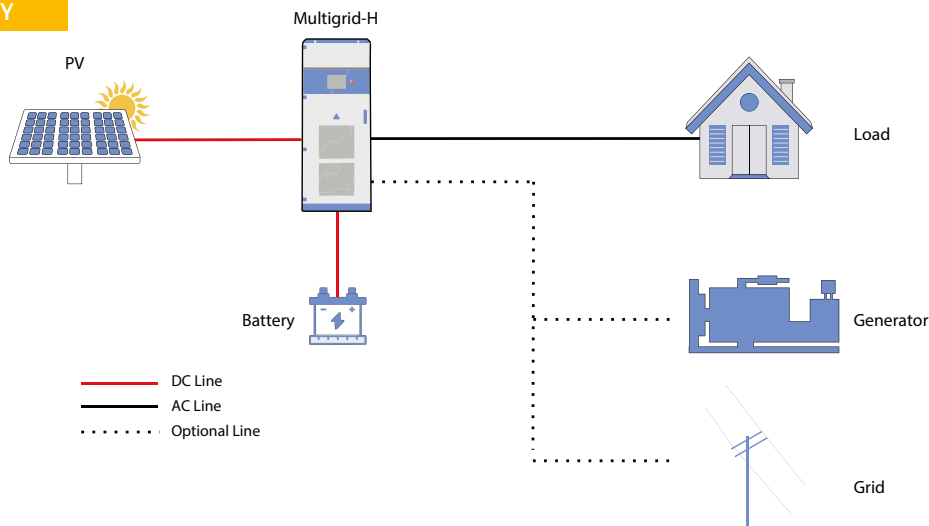
Convenient

- + Integrated design to support loads, batteries, power grids, diesel generators and PV be connected.
- + Integrated EMS function, power supply security and stability, maximum utilization of new energy.

Reliable

- + Prediction intelligent battery management and discharge time.
- + CAN and RS485 communication interface, modbus protocol.
- + Seamless transfer between on and off grid.
- + Strong load adaptability.
- + Perfect protection function to protect inverters and batteries.

PRODUCT TOPOLOGY



Model	MGH0030	MGH0050	MGH0100	MGH0150	MGH0250	MGH0500
AC (Grid-Connected)						
Apparent power	33kVA	55kVA	110kVA	165kVA	275kVA	550kVA
Rated power	30kW	50kW	100kW	150kW	250kW	500kW
Rated voltage	400V					
Rated current	43A	72A	144A	217A	361A	722A
Voltage range	320V-460V					
Rated frequency	50/60Hz					
Frequency range	45-55/55-65Hz					
THDI	<3%					
PF	0.8 lagging - 0.8 leading					
AC connection	3W+N+PE					
Transformer	Yes					
AC (Off-Grid)						
Apparent power	33kVA	55kVA	110kVA	165kVA	275kVA	550kVA
Rated power	30kW	50kW	100kW	150kW	250kW	500kW
Rated voltage	400V					
Rated current	43A	72A	144A	217A	361A	720A
THDU	≤2% linear					
Rated frequency	50/60Hz					
Overload capability	110% -10min 120% -1min					
PV						
Max. PV open-circuit voltage	1000VDC					
Max. PV power	36kW	60kW	120kW	180kW	275kW	550kW
PV mpp voltage range	520VDC-850VDC					
Battery						
Battery voltage range	400-850VDC					
Max. charging power	36kW	60kW	120kW	180kW	275kW	550kW
General Data						
Dimension (WXDXH) mm	1400x800x2050		1400x800x2050		1800x800x2050	2800x800x2050
Weight	440kg	620kg	900kg	1250kg	1700kg	3520kg
Environmental temperature	-25°C~+55°C					
Relative humidity	0-95% Non-Condensing					
Protection degree	IP20					
Noise emission	65dB(A)@1m					
Max.imum altitude	6000m (derate over 3000m)					
Standby consumption	<30W					
Cooling	Forced-air					
Communication						
Display	Touch Screen LCD					
Communication interface	RS485/CAN					

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