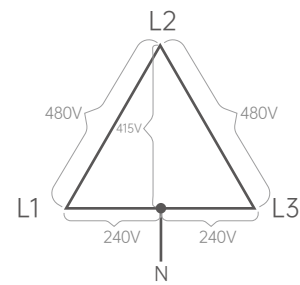


MPS microgrid series (480V)

MPS microgrid hybrid inverter



High-leg Delta with split phase

KEY STRENGTHS

- Output voltage level, control strategy, etc, can be configured according to site requirements to ensure that the product can be adapted to the site application.
- Port message monitoring function, EMS remote monitoring and data analysis, convenient for debugging and maintenance.
- Compatible with many battery BMS protocols.
- Support multi-machine parallel connection function.

APPLICATIONS

 Off-grid mine

 Off-grid island

 Nomadic farm

 Villages without electricity



MPS0030/MPS0050



MPS0100/MPS0150



MPS0250



MPS0500

Model	MPS0030-480S	MPS0050-480S	MPS0100-480S	MPS0150-480S	MPS0250-480S	MPS0500-480S
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AC(on-grid)

Max. output power (kVA)	33	55	110	165	275	550
Rated output power (kW)	30	50	100	150	250	500
Rated voltage(V)	480V High-leg Delta with split phase					
Voltage range (V)	384~552					
Rated current (A)	37	61	121	181	301	601
Rated frequency (Hz)	50/60					
Frequency range (Hz)	45~55 / 55~65					
THDi	<3%					
Power factor	1leading~1lagging(settable)					
Grid type	3W/N/PE					

AC(off-grid)

Max. output power (kVA)	33	55	110	165	275	550
Rated power (kW)	30	50	100	150	250	500
Rated voltage (V)	480V High-leg Delta with split phase					
Rated current (A)	37	61	121	181	301	601
THDu	≤1% linear; or ≤5% nonlinear					
Rated frequency (Hz)	50/60					
Overload capacity	110% long-term					

PV input

Max. PV input voltage (V)	1,000					
Max. PV power (kW)	36/72	60/120	120/180/240	120/180/240	300/360	600/660/720
MPPT voltage range (V)	250~850					

Battery

Battery voltage range (V)	250~850	320~850	420~850	420~850	420~850	500~850
Max. charging power (kW)	36/72	60/120	120/180/240	120/180/240	300/360	600/660/720

General data

Dimension W*D*H (mm)	800*800*1,900	800*800*1,900	1,200*800*2,050	1,200*800*2,050	(600*720*2,050)*1+ 1,200*800*2,050	(600*720*2,050)*2+ 1,600*1,050*2,050
Weight (kg)	620/650	720/750	1,120/1,150/1,180	1,250/1,280/1,310	1,980/2,010	3,265/3,295/3,325
Operation temperature (°C)	-30 ~ 55					
Relative humidity	0 ~95% non-condensing					
Ingress protection	IP20					
Noise emission (dB)	<70					
Operating altitude (m)	<5,000(>3,000 Derating)					
Cooling	Air Cooling					

Display and communication

Display	LCD touch-screen					
BMS communication	RS485,TCP/IP, CAN					
EMS communication	RS485,TCP/IP, CAN					

MPS PV and battery configuration principles:

- > Boost mode configuration principle - open voltage at low temperature at the limit of PV installation * number of PV panels in series ≤ the lowest voltage of the battery;
- > Buck mode configuration principle - the maximum power operating voltage at the extreme high temperature of PV installation ≥ the highest voltage of the battery;
- > The PV and battery configurations of MPS must comply with the above configuration principles.