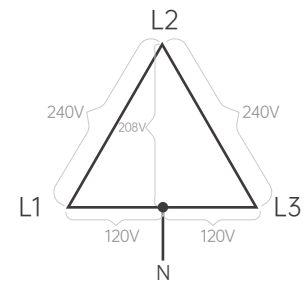


MPS microgrid series (240V)

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

	MPS0030-240S	MPS0050-240S	MPS0100-240S	MPS0150-240S	MPS0250-240S
AC(on-grid)					
Max. output power (kVA)	33	55	110	165	275
Rated output power (kW)	30	50	100	150	250
Rated voltage(V)	240V High-leg Delta with split phase				
Voltage range (V)	192~276				
Rated current (A)	72	120	240	361	602
Rated frequency (Hz)	50/60				
Frequency range (Hz)	45~55 / 55~65				
THDi	<3%				
Power factor	1lagging~1leading (Settable)				
Grid type	3W/N/PE				

AC(off-grid)					
Max. output power (kVA)	33	55	110	165	275
Rated power (kW)	30	50	100	150	250
Rated voltage (V)	240V High-leg Delta with split phase				
Rated current (A)	72	120	240	361	602
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
MPPT module quantity	1/2	1/2	2/3/4	2/3/4	5/6
MPPT voltage range (V)	250~850				

Battery

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

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
Weight (kg)	620/650	720/750	1,120/1,150/1,180	1,250/1,280/1,310	1,980/2,010
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.