MEGAREVO

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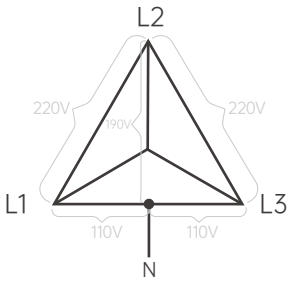
MPS microgrid series (208V)

MPS microgrid hybrid inverter



High-legDelta 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, convenient for debugging and maintenance; EMS remote monitoring and data analysis; 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

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AC(on-grid)

Model	MPS0030	MPS0050	MPS0100	MPS0150	MPS0250
Max output power (kVA)	33	55	110	165	275
Rate output power (kW)	30	50	100	150	250
Rated voltage(V)	208V High-legDelta with split phase(Opt)				
Voltage range (V)	166~239				
Rated current (A)	83	139	278	416	694
Rated frequency (Hz)	50/60				
Frequency range (Hz)	45~55/55~65				
THDi	<3%				
Power factor	1lagging-1leading (Settable)				
AC connection	3W/N/PE / 3W/N/PE Delta(Opt)				
Transformer ratio	100/208	200/208	270/208	270/208	270/208

AC(off-grid)

Max output power (kVA)	33	55	110	165	275
Rated power (kW)	30	50	100	150	250
Rated voltage (V)	208V High-legDelta with split phase(Opt)				
Rated current (A)	83	139	278	416	694
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 voltage range (V)	250-850				
MPPT voltage range@full load (V)	450-850				

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
Net weight (kg)	576/607	720/750	1,120/1,150/1,180	1,250/1,280/1,310	1,980/2,010
Operation temperature (℃)	-30 ~ 55				
Relative humidity	0 ~95% non-condensing				
Ingress protection	IP20				
Noise emission (dB)	<70				
Operating altitude	<5000m(>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.