

AC(on-grid)

Model	NPS0030	NMPS005	NPS0100	NPS0150	NPS0250	NPS0500
Max output power (kVA)	33	55	110	165	275	550
Rate output power (kW)	30	50	100	150	250	500
Rated voltage(V)			400			
Voltage range (V)			320~460			
Rated current (A)	43	72	144	216	361	722
Rated frequency (Hz)			50/60			
Frequency range (Hz)			45~55/55~65			
THDi			<3%			
Power factor			1lagging-1leading (Settable)			
AC connection			3W+N+PE			
Transformer ratio	100/400	200/400	270/400	270/400	270/400	315/400

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Rated power (kW)	30	50	100	150	250	500
Rated voltage (V)			400			
Rated current (A)	43	72	144	216	361	722
THDu			≤1% linear; or≤5% nonlinear			
Rated frequency (Hz)			50/60			
Overload capacity			110% long-term, 120% 1min			

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 module quantity	1/2	1/2	2/3/4	2/3/4	5/6	10/11/12
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	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*1050*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	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			<5000m(>3,000 Derating)			
Cooling			Air Cooling			

Display and communication

Display	LCD touch-screen
BMS communication	RS485, CAN
EMS communication	RS485, TCP/IP
Certificates	EN62109-1/-2, EN62477-1, EN61000-6-2, EN61000-6-4, South Africa NRS097-2-1:2017, Pakistan & India IEC61727, IEC62116, IEC 61683

NPS microgrid hybrid inverter


KE

- | Internal integration PV interfaces, battery interfaces, load interfaces and grid interfaces
- | Easy expansion, support PV flexible configuration.
- | DC-coupled solution with 2% higher system efficiency.
- | Support single-phase and three-phase load power supply at the same time.
- | Control power AC and DC redundant power supply, the system is more secure and reliable.

APPLICATIONS

- » Off-grid mine
- » Off-grid island
- » Nomadic farm
- » Villages without electricity



NPS0030/MPS0050



NPS0100/MPS0150



NPS0250



NPS0500

NPS 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.