

# OPTIMUM SERIES 4-15kW ON-GRID 3 PHASE SOLAR INVERTER



A three-phase on-grid solar inverter is a part of photovoltaic (PV) power system designed to supply power to a three-phase electrical grid, commonly used in commercial, industrial, and large residential applications.



## GENERAL FEATURES

- High Frequency On Grid Solar Inverter
- Wide MPPT voltage range from 200V-1000V
- Ip66 protection
- Integrated DC switch
- DSP digital control
- Multi MPPT controller
- Multiple communications

## SPECIFICATIONS

MODEL	NPS-043PGT	NPS-063PGT	NPS-083PGT	NPS-103PGT	NPS-123PGT	NPS-153PGT						
Grid Output (AC)	Rated AC output power						4kW	6kW	8kW	10kW	12kW	15kW
	Max.AC apparent power						4400VA	6600VA	8800VA	11000VA	13200VA	16500VA
	Max.output current						6.4A	9.6A	12.7A	15.9A	19A	23.8A
	Nominal AC Voltage						230V / 400V					
	AC Voltage range						320-478V					
	AC grid frequency range						50/60Hz ±5Hz					
	Power factor at Rated power						1					
	Adjustable displacement power factor						0.8leading...0.8lagging					
	Total harmonic distortion (THDi)						< 3%					
	AC grid connection type						3W+N+PE					
PV Input(DC)	Max.recommended PV power						4800W	7200W	9600W	12000W	14400W	18000W
	Max.DC voltage						1000V					
	Start voltage						160V					
	Nominal voltage						600V					
	MPPT voltage range						200V-1000V					
	Max.input current						12.5A	12.5A	12.5A	12.5A	21A / 11A	21A / 11A
	Number of independent MPP trackers/ strings per MPP tracker						2/1	2/1	2/1	2/1	2/2+1	2/2+1
	DC connection						H4 / MC4					
Efficiency	Max.efficiency						98.40%					
	Euro weighted efficiency						97.60%	97.60%	98%	98%	98%	98%
	MPPT efficiency						99.50%					
General Data	Protection devices						Island protection, DC reverse polarity protection , Output over current protection, Output overvoltage protection-varistor, Integrated DC switch, Ground fault monitoring, Integrated all-pole sensitive leakage current monitoring unit					
	Dimension(W/H/D)(mm)						539.7*426.2*216.9mm					
	Weight (kg)						21		23.2		24.8	
	Operation temperature range						-25°C - +60°C with derating above 45°C					
	Noise emission(typical)						≤35dB(A)					
	Altitude						3000m					
	Self-consumption (night)						< 1W					
	Topology						Transformerless					
	Cooling concept						Natural					
	Environmental protection Rating						IP66					
Relative humidity						0~100%						

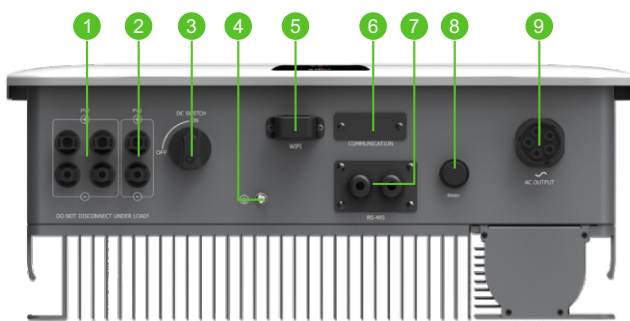
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Features	AC connection	Connector
	Display	LED
	Communication interfaces	USB/WIFI/RS485/GPRS(opt)
	Warranty	Standard 5 years

\*Product specifications are subject to change without further notice.

## BACK PANEL DESCRIPTION



- ① PV1 input
- ② PV2 input
- ③ DC switch
- ④ Ground
- ⑤ WIFI connector
- ⑥ USB port
- ⑦ RS-485 connector
- ⑧ Meter port
- ⑨ AC output

## ORDERING INFORMATION

Part Number	Description
NPS-043PGT	4kW On-Grid 3Phase Solar inverter
NPS-063PGT	6kW On-Grid 3Phase Solar inverter
NPS-083PGT	8kW On-Grid 3Phase Solar inverter
NPS-103PGT	10kW On-Grid 3Phase Solar inverter
NPS-123PGT	12kW On-Grid 3Phase Solar inverter
NPS-133PGT	13W On-Grid 3Phase Solar inverter
NPS-153PGT	15kW On-Grid 3Phase Solar inverter