

INVERTERS

G6-EH3P(8-18)K02-NV-YD-L

Hybrid inverter · Three-phase · 8 – 18 kW · 5 models


8 – 18 kW
RATED POWER

Three-phase
PHASE

2
MPPT TRACKERS

97.5 %
MAX. EFFICIENCY

Parameter	Unit	G6-EH3P8K02-NV-YD-L	G6-EH3P10K02-NV-YD-L	G6-EH3P12K02-NV-YD-L	G6-EH3P15K02-NV-YD-L	G6-EH3P18K02-NV-YD-L
PV input						
Max. PV input power	W	16000	20000	24000	30000	36000
Max. usable PV input power	W	12800	16000	19200	24000	28800
Max. PV input voltage	V	1000				
Rated PV input voltage	V	550				
MPPT voltage range	V	200 – 850				
Start-up voltage	V	160				
Max. input current per MPPT	A	40				42
Max. short-circuit current per MPPT	A	50				
Number of MPPT trackers		2				
Max. number of PV input strings		3			4	
Max. input current per string	A	20				21
AC output						
Rated output power	W	8000	10000	12000	15000	18000
Max. apparent power	VA	8000	10000	12000	15000	18000
Rated AC voltage	V	380				
Rated AC output current	A	12.2	15.2	18.2	22.8	27.3
Phase		Three-phase				
Rated AC frequency	Hz	50				
Total harmonic distortion (THDi)	%	<3				
Power factor		>0.99 (0.8 leading to 0.8 lagging)				
Max. AC input power (grid side)	W	12000	15000	18000	22500	27000
AC input voltage range (grid side)	V	323 – 437				
Max. AC input current (grid side)	A	18.3	22.8	27.3	34.2	41

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Backup output power	W	8000	10000	12000	15000	18000
Peak (surge) power	W	16000	20000	24000	30000	36000
Off-grid overload duration	s	10				
Grid / off-grid switchover time	ms	<10				
Rated output voltage, off-grid side		3/N/PE, 220 V / 380 V				
Rated frequency, off-grid side	Hz	50				
Rated output current, off-grid side	A	12.2	15.2	18.2	22.8	27.3
Max. bypass current	A	50				
Total voltage harmonic distortion (THDv), off-grid side	%	<3				
Generator input		Yes				
Max. input power, generator side	W	8000	10000	12000	15000	18000
Rated input current, generator side	A	12.2	15.2	18.2	22.8	27.3
Rated input voltage, generator side		3/N/PE, 220 V / 380 V				
Rated input frequency, generator side	Hz	50				
Max. parallel units		6				
Battery						
Battery type		Lithium or lead-acid				
Battery voltage range	V	40 – 60				
Max. charge current	A	180	220	250	290	320
Max. discharge current	A	180	220	250	290	320
Number of battery ports / BMS ports		2 / 1				
Max. charge / discharge current per battery port	A	175				
Battery communication		CAN / RS485				
Efficiency						
Max. efficiency	%	97.5				
European efficiency	%	95				
Battery charging efficiency	%	95.0 / 94.4				
Battery discharging efficiency	%	94.5				
Protection						
Protection functions		Surge protection (DC Type II / AC Type II optional); AC output overcurrent protection; insulation resistance protection; residual current (RCD) detection; integrated PV switch; DC reverse polarity protection; DC arc fault protection (optional); anti-islanding protection				
Protection class / overvoltage category		Class I / OVC II (PV and battery ports), OVC III (grid, off-grid and generator ports)				
General data						
Dimensions (W x H x D)	mm	430 × 660 × 305				
Weight	kg	42				

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Topology		Non-isolated (PV), isolated (battery)				
Night-time power consumption	W	<30				
Operating temperature range	°C	-25 – 60				
Relative humidity	%	0 – 100				
Ingress protection (IP rating)		IP66				
Noise level	dB	<65				
Cooling		Intelligent redundant air cooling				
Max. operating altitude	m	4000				
Max. single-phase load capacity (unbalanced output, % of rated power)	%	50				40
PV connector		MC4 quick-connect plug				
Battery connector		Screw terminal				
AC connector		Screw terminal				
Communication						
Display		7-inch LCD, Bluetooth + app				
Communication interfaces		Wi-Fi; LAN; Bluetooth; CAN-BMS; CAN-Parallel x 2; RS485-Meter; RS485; DRM; DI; DO x 4; optional 2G/3G/4G				
Monitoring		Integrated cloud platform with remote control, AI strategy and instant troubleshooting				
Certifications						
Certifications and standards		NB/T 10186; NB/T 32004				
Grid codes		NB/T 10186; NB/T 32004				

Specifications are subject to change without notice. Values are typical at 25 °C unless stated.

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