

INVERTERS

G6-EH1P(12-18)K03-NV-YD-L

Hybrid inverter · Single-phase · 12 – 18 kW · 4 models


12 – 18 kW

RATED POWER

Single-phase

PHASE

3

MPPT TRACKERS

97.6 %

MAX. EFFICIENCY

Parameter	Unit	G6-EH1P12K03-NV-YD-L	G6-EH1P14K03-NV-YD-L	G6-EH1P16K03-NV-YD-L	G6-EH1P18K03-NV-YD-L
PV input					
Max. PV input power	W	24000	28000	32000	36000
Max. usable PV input power	W	19200	22400	25600	28800
Max. PV input voltage	V	550			
Rated PV input voltage	V	380			
Start-up voltage	V	100			
MPPT voltage range	V	80 – 520			
Max. input current per MPPT	A	40			42
Max. input current per string	A	20			21
Max. short-circuit current per MPPT	A	50			
Number of MPPT trackers		3			
Max. number of PV input strings		6			
AC output					
Rated output power	W	12000	14000	16000	18000
Max. apparent power	VA	12000	14000	16000	18000
Rated AC voltage	V	220			
Rated AC output current	A	54.5	63.6	72.7	81.8
Phase		Single-phase			
Rated AC frequency	Hz	50			
Power factor		>0.99 (0.8 leading to 0.8 lagging)			
Total harmonic distortion (THDi)	%	<3			
Max. AC input power (grid side)	W	18000	21000	24000	27000
AC input voltage range (grid side)	V	187 – 253			
Max. AC input current (grid side)	A	81.8	95.5	109.1	122.7

Parameter	Unit	G6-EHIP12K03-NV-YD-L	G6-EHIP14K03-NV-YD-L	G6-EHIP16K03-NV-YD-L	G6-EHIP18K03-NV-YD-L
Backup output power	W	12000	14000	16000	18000
Peak (surge) power	W	24000	28000	32000	36000
Off-grid overload duration	s	10			
Grid / off-grid switchover time, single unit	ms	<10			
Grid / off-grid switchover time, parallel system (up to 6 units)	ms	<20			
Rated output voltage, off-grid side		L/N/PE, 220 V			
Rated frequency, off-grid side	Hz	50			
Rated output current, off-grid side	A	54.5	63.6	72.7	81.8
Max. bypass current	A	90			
Total voltage harmonic distortion (THDv), off-grid side	%	<3			
Generator input		Yes			
Max. input power, generator side	W	12000	14000	16000	18000
Rated input current, generator side	A	54.5	63.6	72.7	81.8
Rated input voltage, generator side		L/N/PE, 220 V			
Rated input frequency, generator side	Hz	50			
Max. parallel units		6			
Battery					
Battery type		Lithium battery / Lead-acid battery			
Battery voltage range	V	40 – 60			
Max. charge current	A	250	290		320
Max. discharge current	A	250	290		320
Number of battery ports / BMS ports		1 / 1			
Battery communication		CAN / RS485			
Efficiency					
Max. efficiency	%	97.6			
Battery charging efficiency	%	>94.90 / >94.33			
Battery discharging efficiency	%	93.51			
Protection					
Protection functions		Surge protection; AC output overcurrent protection; Insulation resistance protection; Residual current (RCD) detection; Integrated PV switch; DC reverse polarity protection (PV side only); 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	459 × 845 × 313			
Weight	kg	55.5			
Topology		Non-isolated (PV), isolated (battery)			

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Night-time power consumption	W	<40			
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			
PV connector		MC4 quick-connect plug			
Battery connector		Screw terminal			
AC connector		Screw terminal			
Communication					
Display		7-inch LCD, Bluetooth + app			
Communication interfaces		4G; Bluetooth; CAN-BMS; CAN-Parallel x 2; RS485-Meter; RS485; DRM; DI; DO x 2			
Monitoring		Integrated cloud platform with remote control, AI strategy and instant troubleshooting			

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

XUSION is a brand of Hunan New Lithium Aviation Technology Co., Ltd.

E-mail lidreamtec@163.com

WhatsApp +86 133 5280 0772