

INVERTERS

G6-EH3P(30-60)K-NV-YD-H

Hybrid inverter · Three-phase · 30 – 60 kW · 4 models


30 – 60 kW

RATED POWER

Three-phase

PHASE

3

MPPT TRACKERS

97.7 %

MAX. EFFICIENCY

Parameter	Unit	G6-EH3P30K03-NV-YD-H	G6-EH3P40K04-NV-YD-H	G6-EH3P50K04-NV-YD-H	G6-EH3P60K04-NV-YD-H
PV input					
Max. PV input power	W	60000	80000	100000	
Max. usable PV input power	W	60000	80000	100000	
Max. PV input voltage	V	1000			
Rated PV input voltage	V	600			
MPPT voltage range	V	150 – 850			
Start-up voltage	V	180			
Max. input current per MPPT	A	42			
Max. short-circuit current per MPPT	A	60			
Number of MPPT trackers		3	4		
Max. number of PV input strings		6	8		
Max. input current per string	A	21			
AC output					
Rated output power	W	30000	40000	50000	60000
Max. apparent power	VA	30000	40000	50000	60000
Rated AC voltage	V	380			
Rated AC output current	A	45.6	60.8	76	91.2
Phase		Three-phase			
Rated AC frequency	Hz	50			
Power factor		>0.99 (0.8 leading to 0.8 lagging)			
Total harmonic distortion (THDi)	%	<3			
Grid connection type		3/N/PE, 220 V / 380 V			
Max. AC input power (grid side)	W	30000	40000	50000	60000
AC input voltage range (grid side)	V	304 – 437			

Parameter	Unit	G6-EH3P30K03-NV-YD-H	G6-EH3P40K04-NV-YD-H	G6-EH3P50K04-NV-YD-H	G6-EH3P60K04-NV-YD-H
Max. AC input current (grid side)	A	45.6	60.8	76	91.2
Max. single-phase load capability		33% of rated power			
Max. parallel system capacity	kW	600			
Battery					
Battery type		Lithium battery			
Battery voltage range	V	150 – 800			
Max. charge current	A	160			168
Max. discharge current	A	160			168
Number of battery ports / BMS ports		2			
Max. charge/discharge current per battery port	A	80			84
Battery communication		CAN			
Compatible battery capacity	Ah	100 – 314			
Efficiency					
Max. efficiency	%	97.7			
European efficiency	%	97.3			
Battery charging efficiency	%	98.5 / 97.8			
Battery discharging efficiency	%	97.5			
Protection					
Protection functions		Surge protection (DC Type II / AC Type II); 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 / PV II, battery II, AC III			
General data					
Dimensions (W x H x D)	mm	530 × 880 × 290			
Weight	kg	76			
Ingress protection (IP rating)		IP66			
Operating temperature range	°C	–25 – 60			
Relative humidity	%	0 – 100			
Max. operating altitude	m	4000			
Cooling		Intelligent redundant air cooling			
Topology		Non-isolated			
Night-time power consumption	W	<35			
PV connector		MC4 quick connector			
Battery connector		Terminal block			
AC connector		OT terminal			
PV coupling		DC and AC coupling			
Demand control and anti-reverse-flow function		Yes			

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Dynamic reactive power compensation		Yes			
Communication					
Display		7-inch LCD; Bluetooth + app			
Communication interfaces		4G (data logger); CAN-BMS x 2; CAN-Parallel x 2; RS485-Meter; RS485; DRM; DI x 3; DO x 3			
Monitoring		Integrated cloud platform: remote control, AI strategies, instant fault 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