

INVERTERS

G6-EH1P(3-10)K-L-PLUS

Hybrid inverter · Single-phase · 3 – 10 kW · 6 models


3 – 10 kW
RATED POWER

Single-phase
PHASE

2
MPPT TRACKERS

96.2 %
MAX. EFFICIENCY

Parameter	Unit	G6-EH1P3K-L-PLUS	G6-EH1P3.6K-L-PLUS	G6-EH1P5K-L-PLUS	G6-EH1P6K-L-PLUS	G6-EH1P8K-L-PLUS	G6-EH1P10K-L-PLUS(21A)
PV input							
Max. PV input power	W	6000	7200	10000	12000	16000	20000
Max. usable PV input power	W	4800	5760	8000	9600	12800	16000
Max. PV input voltage	V	500					
Rated PV input voltage	V	330					
Start-up voltage	V	90					
MPPT voltage range	V	90 – 435					
Max. input current per MPPT	A	16				32	42
Max. input current per input (string)	A	16					21
Max. short-circuit current per MPPT	A	20				40	48
Number of MPPT trackers		2					
PV strings per MPPT		1				2	
AC output							
Rated output power	W	3000	3600	5000	6000	8000	10000
Max. apparent power	VA	3000	3600	5000	6000	8000	10000
Rated AC voltage	V	220					
Phase		Single-phase					
Rated AC frequency	Hz	50					
Rated AC output current	A	13.7	16.4	22.8	27.3	36.4	45.5
Power factor		>0.99 (0.8 leading to 0.8 lagging)					
Total harmonic distortion (THDi)	%	<3					
Max. grid input power	W	4600	5500	7000	8800	11000	14300
Grid input voltage range	V	187 – 253					
Max. grid input current	A	21	25	32	40	50	65

Parameter	Unit	G6-EH1P3K-L-PLUS	G6-EH1P3.6K-L-PLUS	G6-EH1P5K-L-PLUS	G6-EH1P6K-L-PLUS	G6-EH1P8K-L-PLUS	G6-EH1P10K-L-PLUS(21A)
Backup output power	W	3000	3600	5000	6000	8000	10000
Peak (surge) power	W	6000	7200	10000	12000	16000	20000
Backup overload capability		2 x rated power for 10 s					
On/off-grid switching time	ms	<10					
Backup rated output voltage	V	220					
Backup rated output frequency	Hz	50					
Backup rated output current	A	13.7	16.4	22.8	27.3	36.4	45.5
Max. bypass current	A	35		40		50	65
Backup output THDv	%	<2					
Generator input		Yes					
Max. generator input power	W	3000	3600	5000	6000	8000	10000
Generator rated input current	A	13.7	16.4	22.8	27.3	36.4	45.5
Generator rated input voltage	V	220					
Generator rated input frequency	Hz	50					
Max. parallel units		6					
Battery							
Battery type		Lithium battery / Lead-acid battery					
Battery voltage range	V	40 – 60					
Max. charge current	A	70	80	112	135	190	210
Max. discharge current	A	70	80	112	135	190	210
Battery ports / BMS ports		1 / 1					
Battery communication		CAN / RS485					
Efficiency							
Max. efficiency	%	96.2					
Battery charging efficiency	%	95.3 / 93.9					
Battery discharging efficiency	%	93.8					
Protection							
Protection functions		Surge protection; AC output over-current 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; overvoltage category II (PV and battery ports), category III (grid, backup and generator ports)					
General data							
Dimensions (W x H x D)	mm	335 × 560 × 253					
Weight	kg	23				23.5	23.8
Topology		Non-isolated (PV), isolated (battery)					
Self-consumption	W	<40					
Operating temperature range	°C	–25 – 60					
Relative humidity	%	0 – 100					

Parameter	Unit	G6-EHIP3K-L-PLUS	G6-EHIP3.6K-L-PLUS	G6-EHIP5K-L-PLUS	G6-EHIP6K-L-PLUS	G6-EHIP8K-L-PLUS	G6-EHIP10K-L-PLUS(21A)
Ingress protection (IP rating)		IP66					
Noise level	dB	<40				<65	
Cooling		Natural convection				Smart redundant fan cooling	
Max. operating altitude	m	3000					
PV port		MC4 quick connector					
Battery port		Screw terminal					
AC port		Screw terminal					
Communication							
Display		7-inch LCD					
Communication interfaces		4G; Bluetooth; CAN-BMS; CAN-Parallel x 2; RS485-Meter; RS485; DRM; DI; DO x 2					
Monitoring		Bluetooth + mobile app					

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