

INVERTERS

S6-EH3P(80-125)K10-NV-YD-H

Hybrid inverter · Three-phase · 80 – 125 kW · 3 models


80 – 125 kW

RATED POWER

Three-phase

PHASE

10

MPPT TRACKERS

97.5 %

MAX. EFFICIENCY

Parameter	Unit	S6-EH3P80K10-NV-YD-H	S6-EH3P100K10-NV-YD-H	S6-EH3P125K10-NV-YD-H
PV input				
Max. PV input power	W	160000	200000	250000
Max. usable PV input power	W	160000	200000	250000
Max. PV input voltage	V	1000		
Rated PV input voltage	V	600		
MPPT voltage range	V	150 – 950		
Start-up voltage	V	180		
Max. input current per MPPT	A	42		
Max. short-circuit current per MPPT	A	60		
Number of MPPT trackers		10		
PV strings per MPPT		2		
Max. number of PV input strings		20		
Max. input current per string	A	21		
AC output				
Rated output power	W	80000	100000	125000
Max. apparent power	VA	80000	100000	125000
Rated AC voltage	V	400		
Rated AC output current	A	115.5	144.3	180.4
Rated AC output current at 380 V (grid side)	A	121.6	151.9	189.9
Phase		Three-phase		
Rated AC frequency	Hz	50/60		
Total harmonic distortion (THDi)	%	<3		
Power factor		>0.99 (0.8 leading to 0.8 lagging)		
Rated grid voltage options		3/N/PE, 220 V / 380 V, 230 V / 400 V		

Parameter	Unit	S6-EH3P80K10-NV-YD-H	S6-EH3P100K10-NV-YD-H	S6-EH3P125K10-NV-YD-H
Max. AC input power (grid side), 380 V / 400 V	W	160000	164500 / 173200	
AC input voltage range (grid side)	V	304 – 460		
Max. AC input current (grid side)	A	250		
Backup output power	W	80000	100000	125000
Peak (surge) power	W	160000	200000	
Off-grid overload capability (critical loads)		2 x rated power for 200 ms; 1.6 x rated power for 10 s		1.6 x rated power for 200 ms; 1.4 x rated power for 10 s
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		3/N/PE, 220 V / 380 V, 230 V / 400 V		
Rated output frequency, off-grid side	Hz	50/60		
Rated output current, off-grid side (380 V / 400 V)	A	121.6 / 115.5	151.9 / 144.3	189.9 / 180.4
Max. bypass current (380 V / 400 V)	A	121.6 / 115.5	151.9 / 144.3	189.9 / 180.4
Total voltage harmonic distortion (THDv), off-grid side	%	<3		
Generator input		Yes		
Max. input power, generator side	W	80000	100000	125000
Rated input current, generator side (380 V / 400 V)	A	121.6 / 115.5	151.9 / 144.3	189.9 / 180.4
Rated input voltage, generator side		3/N/PE, 220 V / 380 V, 230 V / 400 V		
Rated input frequency, generator side	Hz	50/60		
Max. parallel system capacity	kW	1250		
Battery				
Battery type		Lithium-ion		
Battery voltage range	V	300 – 950		
Max. charge current	A	200		
Max. discharge current	A	200		
Number of battery ports / BMS ports		2		
Max. charge / discharge current per battery port	A	100		
Battery communication		CAN		
Compatible battery module capacity	Ah	100 – 314		

Parameter	Unit	S6-EH3P80K10-NV-YD-H	S6-EH3P100K10-NV-YD-H	S6-EH3P125K10-NV-YD-H
Efficiency				
Max. efficiency	%	97.5		
European efficiency	%	96.9	97.1	97.2
Battery charging efficiency	%	98.2 / 97.0		
Battery discharging efficiency	%	97.0		
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 / OVC II (DC), OVC III (AC)		
General data				
Dimensions (W x H x D)	mm	1174 × 814 × 400		
Weight	kg	170		
Ingress protection (IP rating)		IP66		
Operating temperature range	°C	−25 – 60		
Relative humidity	%	0 – 100		
Max. operating altitude	m	3000		
Cooling		Intelligent redundant air cooling		
Topology		Non-isolated		
Night-time power consumption	W	<45		
Max. single-phase load capacity (% of rated power)	%	33		
PV connector		MC4 quick-connect terminal		
Battery connector		Through-wall terminal		
AC connector		Terminal block		
Communication				
Display		7.0-inch display, Bluetooth + app		
Communication interfaces		Wi-Fi + LAN + Bluetooth; CAN-BMS x 2; CAN-Parallel x 2; LAN; RS485-Meter; RS485; DRM; DI x 5; DO x 4; optional 4G		
Monitoring		Integrated cloud platform with remote control, AI strategy and instant troubleshooting		
Certifications				
Certifications and standards		IEC/EN 62109-1/-2; IEC/EN 61000-6-2/-4; EN 55011		
Grid codes		G99; VDE-AR-N 4105; VDE V 0124; EN 50549-1; EN 50549-2; EN 50549-10; VDE 0126; UTE C 15; VFR:2019; NTS 631; UNE 217001; CEI 0-21; C10/11; NRS 097-2-1; TOR; IEC 62116; IEC 61727; IEC 60068; IEC 61683; EN 50530; MEA; PEA; PORTARIA Nº 140; PORTARIA Nº 515		
Note on grid codes		Planned certification standards only; confirm the actual status with the local team before quoting		

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