

INVERTERS

S6-EH3P(15-20)K-ND-H

Hybrid inverter · Three-phase · 15 – 20 kW · 2 models


15 – 20 kW

RATED POWER

Three-phase

PHASE

4

MPPT TRACKERS

97.7 %

MAX. EFFICIENCY

Parameter	Unit	S6-EH3P15K-ND-H	S6-EH3P20K-ND-H
PV input			
Max. PV input power	W	30000	40000
Max. usable PV input power	W	24000	32000
Max. PV input voltage	V	1000	
Rated PV input voltage	V	600	
MPPT voltage range	V	200 – 850	
Start-up voltage	V	160	
Max. input current per MPPT	A	20	
Max. short-circuit current per MPPT	A	30	
Number of MPPT trackers		4	
Max. number of PV input strings		4	
AC output			
Rated output power	W	15000	20000
Max. apparent power	VA	15000	20000
Rated AC voltage	V	400	
Rated AC output current	A	21.7	28.9
Phase		Three-phase	
Rated AC frequency	Hz	50/60	
Max. AC output current	A	21.7	28.9
Power factor		>0.99 (0.8 leading to 0.8 lagging)	
Total harmonic distortion (THDi)	%	<3	
AC input voltage range (grid side, 380 V / 400 V)	V	304-437 / 320-460	
Max. AC input current (grid side, 380 V / 400 V)	A	34.2 / 32.5	45.6 / 43.3

Parameter	Unit	S6-EH3P15K-ND-H	S6-EH3P20K-ND-H
Rated AC input frequency (grid side)	Hz	50 / 60	
AC input frequency range (grid side)	Hz	45-55 / 55-65	
Generator input		Yes	
Max. input power, generator side	W	15000	20000
Max. input current, generator side (380 V / 400 V)	A	22.8 / 21.7	30.4 / 28.9
Rated input frequency, generator side	Hz	50 / 60	
Backup output power	W	15000	20000
Peak (surge) power	W	24000	32000
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, 230 V / 400 V	
Rated frequency, off-grid side	Hz	50 / 60	
Rated output current, off-grid side (380 V / 400 V)	A	22.8 / 21.7	30.4 / 28.9
Total voltage harmonic distortion (THDv), off-grid side	%	<3	
Battery			
Battery type		Lithium battery	
Battery voltage range	V	120 – 800	
Max. charge power	W	15000	20000
Max. discharge power	W	15000	20000
Max. charge current	A	50	
Max. discharge current	A	50	
Battery communication		CAN / RS485	
Efficiency			
Max. efficiency	%	97.7	
European efficiency	%	97.5	
Max. PV charging efficiency	%	98.5	
Max. battery charge / discharge efficiency	%	97.2	
Protection			
Protection functions		Anti-islanding protection; AC output overcurrent protection; AC short-circuit protection; DC arc fault protection (optional); Integrated DC switch; DC reverse polarity protection; PV overvoltage protection; Battery reverse polarity protection	
General data			
Max. three-phase unbalanced load capacity	%	100	
Max. single-phase load capacity		40% of rated power	
Dimensions (W x H x D)	mm	563 × 546 × 235	
Weight	kg	32.6	

Parameter	Unit	S6-EH3P15K-ND-H	S6-EH3P20K-ND-H
Topology		Transformerless	
Night-time power consumption	W	<25	
Operating temperature range	°C	−25 – 60	
Relative humidity	%	0 – 100	
Ingress protection (IP rating)		IP66	
Noise level	dB	<65	
Cooling		Intelligent air cooling	
Max. operating altitude	m	4000	
PV connector		MC4 connector	
Battery connector		OT terminal	
AC connector		OT terminal	
Communication			
Display		LED indicators, Bluetooth + app	
Communication interfaces		CAN; RS485; Ethernet; Wi-Fi (optional); Cellular (optional); LAN (optional)	
Certifications			
Certifications and standards		IEC/EN 62109-1/-2; IEC/EN 61000-6-1/-2/-3/-4	
Grid codes		EN 50549-1/-10; VDE 4105; CEI 0-21; CEI 0-16; NC-RFG Type B; NRS 097-2-1; LTU-1; G99; PEA	

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.

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