

EK60 H3 2.9–6K Single Phase Hybrid Inverter

EK60 H3, SAJ's latest hybrid inverter for EU, an ultralight energy solution supports 18A PV input with 200% oversizing and 140A fast charging for peak performance. Featuring plug-and-play backup and 10-unit parallel scalability, it integrates intelligent energy management for heat pumps and solar systems, delivering a powerful, space-saving solution for both on-grid and off-grid applications.



- ❑ IP66 protection degree, support indoor and outdoor installation
- ❑ Max. 18A PV input current; DC/AC access oversizing up to 200%
- ❑ Max 140A fast charge/discharge current
- ❑ Plug and play eu-socket backup for future
- ❑ Max. 10 pcs parallel for on-grid and off-grid operation, Support multiple batteries parallel
- ❑ Integrated intelligent energy management with heat pump, solar system
- ❑ Ultralight for easy installation and space-saving

EK60 H3-2.9K-LS2 | EK60 H3-3K-LS2 | EK60 H3-3.6K-LS2
 EK60 H3-4K-LS2 | EK60 H3-4.6K-LS2 | EK60 H3-5K-LS2
 EK60 H3-6K-LS2

MODEL	EK60 H3-2.9K-LS2	EK60 H3-3K-LS2	EK60 H3-3.6K-LS2	EK60 H3-4K-LS2	EK60 H3-4.6K-LS2	EK60 H3-5K-LS2	EK60 H3-6K-LS2
DC Input							
Max. PV Array Power [Wp]@STC	5800	6000	8000	9200	7000	10000	12000
Max. PV Input Power	4640	4800	6400	7360	5760	8000	9600
Max. DC Voltage [V]	600						
MPPT Voltage Range [V]	80 ~ 550						
Rated DC Voltage [V]	360						
Start Voltage [V]	80						
Max. DC Input Current [A]	18/18						
Max. DC Short Circuit Current [A]	25/25						
No. of MPPT	2						
Battery Parameters							
Battery Type	Lead-acid or LiFePO4						
Battery Voltage Range[V]	40 ~ 60						
Max. Charging/Discharging Current [A]	80	80	90	100	110	120	140
Charging strategy for Li-ion battery	Self-adaption to BMS						
Communication	CAN						
AC Output [On-grid]							
Rated AC Power [W]	2940	3000	3680	4000	4600	5000	6000
Max. Apparent Power*1 [VA]	2940	3300	3680	4400	4600	5500	6600
Rated Output Current [A]@230V	12.8	13.0	16.0	17.4	20.0	21.7	26.1
Max. Output Current [A]@230V	12.8	14.3	16.0	19.1	20.0	23.9	28.7
Rated AC Voltage/Range [V]	L+N+PE, 220, 230, 240						
Rated Output Frequency/Range [Hz]	50,60/45 ~ 55,55 ~ 65						
Power Factor [cos φ]	0.8 leading ~ 0.8 lagging						
Total Harmonic Distortion [THDi]	<3%						
AC Input [On-grid]							
Rated AC Voltage/Range [V]	L+N+PE, 220, 230, 240/180 ~ 280						
Rated Input Frequency [Hz]	50,60						
Max AC Input (A)	12.8	15	16.4	20	20	25	30
AC Output [Back-up EU Socket]							
Max. Output Power [VA]	2944	3289	3680	3680	3680	3680	3680
Max. Output Current [A]@230V	12.8	13	16	16	16	16	16
Peak Output Apparent Power [VA]	2 Times,10S						
Rated AC Voltage/Range [V]	L+N+PE, 220, 230, 240						
Rated Output Frequency/Range [Hz]	50,60/45 ~ 55,55 ~ 65						
Output THDv (@ Linear Load)	<3%						
Efficiency							
Max. Efficiency	97.6%						
Euro Efficiency	97.0%						
Protection							
Battery Input Reverse Polarity Protection	Integrated						
Over load Protection	Integrated						
AC Short Circuit Current Protection	Integrated						
DC Surge Protection	Type II (Optional)						
AC Surge Protection	Type II (Optional)						
Anti-islanding Protection	Integrated						
AFCI Protection	Optional						
RSD Protection	Optional						
Interface							
PV Connection	MC4						
AC Connection	OT terminal						
Battery Connection	OT terminal						
Display	LED+APP						
Communication	Wi-Fi/Ethernet/4G (Optional)						
General Parameters							
Topology	Non-isolated						
Operating Temperature Range	-40°C to +60°C (45°C to 60°C with derating)						
Cooling Method	Nature						
Ambient Humidity	0-100% Non-condensing						
Altitude [m]	3000						
Noise [dBA]	<35						
Ingress Protection	IP66						
Dimensions [H*W*D] [mm]	460*350*232						
Weight [kg]	19.0						
Warranty [Year]	10						
Standard	EN 62109-1/2, EN 61000-6-2/4, IEC 62116, IEC 61727, PEA&MEA, NBR 16149, NBR 16150, PORTARIA N° 140						