

# H2 LV Split Phase Hybrid Inverter

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Suitable for the US market split phase grid, photovoltaic input supports 1.5DC /AC ratio, battery input 48V flexible battery configuration, Up to 11.4kW output intergrated 200A transfer Relay to support whole home backup power.



- ❑ Up to 11.4kW output intergrated 200A transfer Relay, support whole home backup power
- ❑ IP65 protection, support indoor and outdoor installlation
- ❑ Lithium battery and lead acid battery compatibility
- ❑ Maximum 4 MPPTs
- ❑ With UPS function switch time  $\leq 20\text{ms}$
- ❑ Compatibility with generator input for backups

H2-5K-LS3-US | H2-7.6K-LS3-US  
H2-9.6K-LS4-US | H2-11.4K-LS4-US

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MODEL	H2-5K-LS3-US	H2-7.6K-LS3-US	H2-9.6K-LS4-US	H2-11.4K-LS4-US
<b>PV String Input</b>				
Max PV Array Power [Wp]@STC	7500	11400	14400	17100
Max DC Voltage [V]			600	
MPPT Voltage Range [V]			90 ~ 550	
Nominal DC Voltage [V]			380	
Start Voltage[V]			100	
Min Input Voltage[V]			80	
Max. DC Input Current [A]	16/16/16			16/16/16/16
Max. DC Short Current [A]	19.2/19.2/19.2			19.2/19.2/19.2/19.2
Number of DC Connection Sets per MPPT	1/1/1			1/1/1/1
Number of MPPT	3			4
DC Switch			Integrated	
<b>Battery Input</b>				
Battery Type			Lead-acid battery/Lithium battery	
Battery Voltage Range [V]			40~60	
Start Voltage[V]			42~60	
Max. Charging/Discharging Current [A]	152			228
<b>AC Output [On-grid]</b>				
Rated AC Power [W]@208Vac	4330	6580	8320	9880
Rated AC Power [W]@240Vac	5000	7600	9600	11400
Rated AC Current [A]@208/240 V AC	20.8	31.7	40	47.5
Rated AC Voltage/ Range [V]		L1/L2/N/PE, 208V,120/240V; 183V~229V/211V~264V		
Grid Frequency/ Range [Hz]			60/54-65	
Power Factor [cosφ]			0.8 leading ~ 0.8 lagging	
Total Harmonic Distortion [THDi]			< 3% ( at nominal power)	
<b>AC Output [Back-up Mode]</b>				
Rated AC Power[W]@208V AC	4330	6580	8320	9880
Rated AC Power[W]@240V AC	5000	7600	9600	11400
Rated AC Current [A]@208/240 V AC	20.8	31.7	40	47.5
Peak output power (VA, 1min)	6000	8360	10560	12540
Peak output power (W, 10ms)	7500	11400	14400	17100
Rated Output Voltage [V]			240/120	
Grid Frequency/ Range [Hz]			60/54~65	
Output THDv (@ Linear Load)			<3%	
Switching time (ms)			< 10	
<b>AC Input [GEN]</b>				
Maximum continuous input power@240V	5000	7600	9600	11400
Rated Voltage			240/120	
Rated Current	20.8	31.7	40	47.5
<b>Efficiency</b>				
Maximum efficiency			97.2%	
CEC Efficiency			96.5%	
AC-Bat maximum efficiency			94.2%	
<b>Protection &amp;Features</b>				
Overload Protection			Integrated	
ISO monitoring			Integrated	
DC component monitoring			Integrated	
Monitoring of ground fault current			Integrated	
Grid monitoring			Integrated	
AC output short circuit protection			Integrated	
AC grounding detection			Integrated	
AC Surge Protection			Type II	
DC Surge Protection			Type II	
Island protection monitoring			Integrated	
AFCI			Integrated	
RSD			Integrated	
<b>Interface</b>				
Display			LED/APP+(Bluetooth)	
Communication Port			RS485/CAN	
Communication			Wi-Fi/4G(Optional)	
Load Monitor			24 hours	
<b>General Data</b>				
Topology Type			Transformer-less (DC-AC)	
Standby power consumption [W]			< 35	
Operating Temperature Range		-40°C to +60°C (-40°F to 140°F) [Load shedding operation above 45 °C]		
Cooling Method			Smart air cooling	
Ambient Humidity			0% ~ 100% Non-condensing	
Altitude (m)			< 2000	
Noise [dBA]			<50	
Ingress Protection			NEMA 4x(IP65)	
Mounting			Wall mounting	
Dimensions[H*W*D] [inch]			810*485*247 mm (31.89*19.094*9.724 inch)	
Weight [kg]			48 kg (105.82 lb)	
Standard Warranty [Year]			10	
Safety/EMC standard	UL 1741 and 1741SB; IEEE1547 and 1547.1; UL1699B, UL1998; CSA STD. C22.2 No.107.1, FCC, Part15, Class B, Rule21, HE CO 14H			