

H2 LV Split Phase Hybrid Inverter

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

MODEL	H2-5K-LS3-US	H2-7.6K-LS3-US	H2-9.6K-LS4-US	H2-11.4K-LS4-US
PV String Input				
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/Min Input Voltage [V]			100	
Max Input Current [A]	16/16/16			16/16/16/16
No. of Strings per MPPT	1/1/1			1/1/1/1
No. of MPPT	3			4
Battery Input				
Battery Type			Lead-acid or LiFePO4	
Voltage Range [V]			40 ~ 60	
Max. Charging/ Discharging Current [A]	160			240
AC Output [On-grid]				
Rated AC Power [W]@208Vac	4330	6580	8320	9880
Rated AC Power [W]@240Vac	5000	7600	9600	11400
Max. Apparnet Power [VA]	5500	3860	10560	12540
Rated AC Current [A]@208Vac	20.8	31.7	40	47.5
Max. AC Current [A]@240Vac	22.9	34.8	44	52.3
Rated AC Voltage/Range		L1/L2/N/PE, 208V/240V; 183V~229V/211V~264V		
Rated Output Frequency [Hz]		60/54-65		
Power Factor [cosφ]		0.8 leading ~ 0.8 lagging		
Total Harmonic Distortion [THDi]		<3%		
AC Output [Back-up Mode]				
Rated Output Power [W]@240Vac	5000	7600	9600	11400
Over Load Capacity [W, 10s]	11400			17100
Rated Output Voltage [V]			120/240	
Rated Output Frequency [Hz]			60	
Output THDV(@ Liner Load)			<3%	
Efficiency				
Max. Efficiency			97.6%	
CEC Efficiency [@600Vdc]			97%	
Bat-AC Max. Efficiency			93%	
Protection				
Over Voltage Protection			Intergrated	
AC Surge Protection			Type II	
DC Surge Protection			Type II	
Over Heat Protection			Intergrated	
Islanding Pretection			Intergrated	
AFP			Intergrated	
RSD			Intergrated	
Interface				
Display			LED+APP (Bluetooth)	
Communication Port			RS232 +RS485(RJ45)+DRM(RJ45)	
Communication			Wi-Fi/Ethernet/4G	
Load Monitor			24 hours	
General Data				
Isolation Type			HF	
Standby Power Consumption [W]			<10	
Operating Temperature Range		-40°C ~ +60°C (>45°C power derating)		
Cooling Method		Smart Fan Cooling		
Ambient Humidity		0% ~ 100% no-condensing		
Altitude		4000m (>3000m power derating)		
Noise [dBA]		<40		
Ingress Protection		NEMA 4x (IP65)		
Mounting		Wall Mounting		
Dimensions [H*W*D][inch]		30.7*18.5*10.2		
Weight [kg]		50 (110 lbs)		
Warranty [years]		10		
Safety/EMC Standard	UL 1741 CRD, IEEE 1547, UL 1699B, UL 1998, UL 9540, CAN/CSA C22.2.107.1-1, FCC, Part 15 Class B, SRD-UL1741			