

LV SERIES

Single Phase Inverter (Off-grid)

4 | 6 | 8 kW

IP66

IP66 High Protection
Better protection rating keeps humidity, dust and insects out of device, providing longer duration.



Up to 200% PV Oversizing
Large PV input maximizing yield & high performance



Wide Grid Range
Wide grid voltage adaptation range of 90-280V



High Expansion for Three Phase
Support up to 6 single-phase inverters or 9 three-phase inverters in a grid configuration



Flexible PV Selection
Up to 18A per MPPT
70V startup voltage



Model	VEH-S6KB4-LV		VEH-S8KB4-LV	
Battery Data				
Battery Type	Lithium-ion & Lead-acid			
Rated Battery Voltage	48V			
Battery Voltage Range	40-60V			
Max. Charge/Discharge Current	125 / 125A		165 / 165A	
Forced Wake-up by PV	YES			
PV Input				
Max. MPPT Input Power	12000W			
Max. Input Voltage	500V			
Rated Input Voltage	370V			
MPPT Voltage Range	60~450V			
No. Of MPPT/ Strings Per MPPT	2 / 1+1			
Max Input Current Per MPPT	18+18A			
Max. Short Circuit Current Per MPPT	27+27A			
Grid Input				
Rated Grid Voltage	220/230/240V±5%			
Voltage Input Range	90-280V			
Rated Grid Frequency	50 / 60Hz			
Max Input Current	40A		50A	
Total Harmonic Distortion	<3% (of nominal power)			
Backup Data				
Rated Output Power	6000W		8000W	
Rated Output Current	27A		35A	
Rated Output Frequency	50/60Hz±0.1%			
Overload Capability	1min@101-110%;10s@110%-150%;5s@150%-200%;100ms@>200%			
Switch Time	10ms for Computer Equipment,20ms for Household Equipment			
Total Harmonic Distortion	<3%			
Efficiency				
Max. Efficiency	97.0%			
MPPT Tracking Efficiency	99.9%			
Protection				
Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Power Network Monitoring, Earth Fault Detection,Surge protection level			
Surge Protection	TYPE II(DC), TYPE II(AC)			
Over Voltage Category	OVC II (DC), OVC III (AC)			
General Data				
Operating Temperature	-40~+60(Above 45°C Derating)			
Dimensions (W*H*D)	430*350*177.8mm			
Weight	16.0kg			
Inverter Topology	Non-Isolated			
Cooling	Smart cooling			
Altitude	≤3000m			
Protection Level	IP66			
Communication	RS485 / CAN / Dry contact/ External battery NTC/Parallel communication/WIFI(Built-in)			
Warranty	5 Years			
Standard				
Safety Standards	IEC 62109-1:2010, EN 62109-1:2010, IEC 62109-2:2011, EN 62109-2:2011			
EMC Standards	EN IEC 61000-6-1:2019;EN IEC 61000-6-3:2021;EN IEC 61000-3-11:2019;EN61000-3-12:2011			
Efficiency Standard	IEC 61683:1999			