PVblink®
INVERTER

Intelligent Power. Seamless Energy.

Advanced Solar Hybrid Inverter Solutions for a Smarter, Sustainable Future.

Hybrid Single Phase (3-6kW) **& Three Phase** (8-18kW) **LV Series**



HYBRID
SOLAR INVERTER

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Hybrid Single Phase LV Series (3-6kW)

Model	PVBHS3K-M2	PVBHS3.6K-M2	PVBHS5K-M2	PVBHS6K-M2
	3K	3.6K	5K	6K
Input DC (PV side)				
Max. PV array size	6 kW	7.2 kW	10 kW	12 kW
Max. usable PV input power	4.8 kW	5.76 kW	8 kW	9.6 kW
Max. input voltage	500 V			
Rated voltage	330 V			
Start-up voltage	100 V			
MPPT voltage range	90 - 435 V			
Max. input current	21 A / 21 A			
Max. current per DC input	21 A			
Max. short circuit current	24 A / 24 A			
MPPT number / Max. input strings number	2 / 1 + 1			
Battery				
Battery type	Li-ion / Lead-acid			
Battery voltage range	40 - 60 V			
Max. charge / discharge current	70 A	80 A	112 A	135 A
Number of battery port / Number of BMS port	1 / 1			
Communication	CAN / RS485			
Output AC (Grid side)				
Rated output power	3 kW	3.6 kW	5 kW	6 kW
Max. apparent output power	3 kVA	3.6 kVA	5 kVA	6 kVA
Rated grid voltage	1/N/PE, 220 V / 230 V			
Rated grid frequency	50 Hz			
Rated grid output current	13.7 A / 13.1 A	16.4 A / 15.7 A	22.8 A / 21.8 A	27.3 A / 26.1 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)			
THDi	< 3%			
Input AC (Grid side)				
Max. input power	4.5 kW	5.4 kW	7.5 kW	9 kW
Max. input current	20.5 A / 19.6 A	24.5 A / 23.5 A	34.1 A / 32.6 A	40 A / 39.1 A
Output AC (Back-up)				
Rated output power	3 kW	3.6 kW	5 kW	6 kW
Max. apparent output power	2 times of rated power, 10 s			
Back-up switch time*	< 4 ms*			
Rated output voltage	1/N/PE, 220 V / 230 V			
Rated frequency	50 Hz / 60 Hz			
Rated output current	13.7 A / 13.1 A	16.4 A / 15.7 A	22.8 A / 21.8 A	27.3 A / 26.1 A
Max. AC passthrough current	40 A			
THDv (@linear load)	< 3%			
Input AC (Generator side)				
Max. input power	3 kW	3.6 kW	5 kW	6 kW
Rated input current	13.7 A / 13.1 A	16.4 A / 15.7 A	22.8 A / 21.8 A	27.3 A / 26.1 A
Rated input voltage	1/N/PE, 220 V / 230 V			
Rated input frequency	50 Hz			
Efficiency				
Max. efficiency	97.5%			
EU efficiency	96.0%			
BAT charged by PV / AC max. efficiency	95.0%/92.9%			
Battery discharged efficiency	93.8%			
Protection				
Surge protection	DC Type II / AC Type II			
Output over current protection	Yes			
Insulation resistance monitoring	Yes			
Residual current detection	Yes			
Integrated PV switch	Yes			
DC reverse-polarity protection	Yes (PV only)			
Protection class / Over voltage category	I / II (PV and BAT), III (MAINS and BACKUP and GEN)			
Anti-islanding protection	Yes			
General Data				
Dimensions (W × H × D)	340 × 560 × 251.6 mm			
Weight	14.5 kg			
Inverter topology	Non-isolated (PV), Isolated (Battery)			
Self-consumption	< 20 W			
Operating temperature range	-25 ~ +60°C			
Relative humidity	0 - 100%			
Ingress protection	IP66			
Noise emission (typical)	< 45 dB(A)			
Cooling concept	Intelligent redundant fan-cooling			
Max. operation altitude	4000 m			
Grid connection standard	IEC 62116, IEC 61727, IEC 60068, IEC 61683			
Safety / EMC standard	IEC/EN 62109-1/-2, IEC 61000-6-1/-2/-3/-4			
Features				
PV connection	MC4 connector			
Battery connection	Terminal Block			
AC connection	Terminal Block			
Display	4.3" LCD display & Bluetooth + APP			
Communication interface	WiFi, GPRS, CAN, RS485			

Specifications are subject to change without prior notice due to constant improvement in design and technology.

*Approx **From On-Grid Mode to Off-Grid Mode: For a single inverter system, switchover time <4ms. For a parallel system which consists of up to 6 inverters, switchover time <20ms. If customer wishes to connect more than 6 inverters in parallel, please contact Technical Team.

Hybrid Three Phase LV Series (8-18kW)

Model	PVBHT8K-M2	PVBHT10K-M2	PVBHT12K-M2	PVBHT15K-M2	PVBHT18K-M2
	8K	10K	12K	15K	18K
Input DC (PV side)					
Max. PV array size	16 kW	20 kW	24 kW	30 kW	36 kW
Max. usable PV input power	12.8 kW	16 kW	19.2 kW	24 kW	28.8 kW
Max. input voltage	1000 V				
Rated voltage	550 V				
Start-up voltage	160 V				
MPPT voltage range	200 - 850 V				
Max. input current	20 A / 40 A			40 A / 40 A	42 A / 42 A
Max. short circuit current	30 A / 50 A			50 A / 50 A	50 A / 50 A
MPPT number / Max. input strings number	2 / 3			2 / 4	
Battery					
Battery type	Li-ion / Lead-acid				
Battery voltage range	40 - 60 V				
Max. charge / discharge current	180 A	220 A	250 A	290 A	320 A
Number of battery ports	2				
Max. charge / discharge current of each port	150 A				175 A
Communication	CAN / RS485				
Output AC (Grid side)					
Rated output power	8 kW	10 kW	12 kW	15 kW	18 kW
Max. apparent output power	8 kVA	10 kVA	12 kVA	15 kVA	18 kVA
Rated grid voltage	3/N/PE, 220 V / 380 V; 3/N/PE, 230 V / 400 V				
Rated grid frequency	50 Hz				
Rated grid output current	12.2 A / 11.5 A	15.2 A / 14.4 A	18.2 A / 17.3 A	22.8 A / 21.7 A	27.3 A / 26.1 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)				
THDi	< 3%				
Input AC (Grid side)					
Max. input current	18.3 A / 17.3 A	22.8 A / 21.7 A	27.3 A / 26.0 A	34.2 A / 32.5 A	41 A / 39.2 A
Input Generator					
Max. input power	8 kW	10 kW	12 kW	15 kW	18 kW
Max. input current	12.2 A / 11.5 A	15.2 A / 14.4 A	18.2 A / 17.3 A	22.8 A / 21.7 A	27.3 A / 26.1 A
Rated input voltage	3/N/PE, 220 V / 380 V; 3/N/PE, 230 V / 400 V				
Rated input frequency	50 Hz				
Output AC (Back-up)					
Rated output power	8 kW	10 kW	12 kW	15 kW	18 kW
Max. apparent output power	2 times of rated power, 10 s				
Back-up switch time**	< 10 ms				
Rated output voltage	3/N/PE, 220 V / 380 V; 3/N/PE, 230 V / 400 V				
Rated frequency	50 Hz				
Rated output current	12.2 A / 11.5 A	15.2 A / 14.4 A	18.2 A / 17.3 A	22.8 A / 21.7 A	27.3 A / 26.1 A
Max. continuous output current	12.2 A / 11.5 A	15.2 A / 14.4 A	18.2 A / 17.3 A	22.8 A / 21.7 A	27.3 A / 26.1 A
Max. continuous AC passthrough current	50 A				
THDv (@linear load)	< 3%				
Efficiency					
Max. efficiency	97.5%				
EU efficiency	96.4%				
BAT charged by PV / AC max. efficiency	95.0% / 94.4%				
BAT discharged to AC max. efficiency	94.5%				
Protection					
Anti-islanding protection	Yes				
Insulation resistance monitoring	Yes				
Output over current protection	Yes				
Short circuit protection	Yes				
DC reverse-polarity protection	Yes				
Surge protection	DC Type Ⅱ / AC Type Ⅱ (Optional)				
Protection Class / Over voltage category	Ⅰ / Ⅱ (PV and BAT), Ⅲ (MAINS and BACKUP and GEN)				
Integrated AFCI 2.0	Optional				
Integrated DC switch	Yes				
General Data					
Dimensions (W × H × D)	430 × 660 × 305 mm*				
Weight	42 kg*				
Topology	Non-isolated				
Self-consumption (night)	< 30 W				
Operating ambient temperature range	-25 ~ +60°C				
Relative humidity	0 - 100%				
Ingress protection	IP66				
Noise emission (typical)	< 65 dB(A)				
Cooling concept	Intelligent fan-cooling				
Max. operation altitude	4000 m				
Grid connection standard	IEC 62116, IEC 61727, IEC 60068, IEC 61683				
Safety / EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4				
Features					
DC connection	MC4 Quick connection plug (PV) & Screw terminal (Battery)				
AC connection	Screw terminal				
Display	7.0" LCD display & Bluetooth + APP				
Communication	WiFi, GPRS, CAN, RS485				

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