

Single Phase & Three Phase

HYBRID INVERTER



SMART FEATURES

- Smart Load function
- Overload/over temperature/ short circuit protection
- Smart battery charger design for optimized battery performance
- Programmable multiple operation modes: On grid, Off grid and UPS.
- Programmable supply priority for battery or grid.
- Smart settable three stages MPPT charging for optimized battery performance.
- With built-in export limitation function.
- The system is AC-coupled to retrofit existing solar installations.
- Up to a max. of 10 units can be connected in parallel for On-Grid installations and upgrades. It supports the parallel operation of multiple batteries.
- The system is capable of a max. charging and discharging current of 50A.
- High voltage batteries offer enhanced efficiency.

TECHNICAL SPECIFICATION

Model	HYB-3-GXLS1	HYB-3.3-GXLS1	HYB-3.6-GXLS1	HYB-4-GXLS1	HYB-5-GXLS1	HYB-5.5-GXLS1	HYB-6-GXLS1	HYB-6.6-GXLS1							
Battery Input Data															
Battery Type	Lead-acid or Lithium-ion														
Battery Voltage Range(V)	40-60														
Max. Charging Current(A)	70	90	100	120			135								
Max. Discharging Current(A)	70	90	100	120			135								
Charging Strategy for Li-ion Battery	Self-adaption to BMS														
Number of Battery Input	1														
PV String Input Data															
Max. PV access power(W)	6000	7200	8000	10000			12000								
Max. PV Input Power(W)	4800	5760	6000	8000			9600								
Max. PV Input Voltage(V)	500														
Start-up Voltage(V)	125														
PV Input Voltage Range(V)	125-500														
MPPT Voltage Range(V)	150-425														
Full Load MPPT Voltage Range(V)	300-425														
Rated PV Input Voltage(V)	370														
Max. Operating PV Input Current(A)	18			18+18											
Max. Input Short-Circuit Current(A)	27			27+27											
No. of MPP Trackers/No. of Strings MPP Tracker	1/1			2/1+1											
Max. Inverter Backfeed Current to The Array	0														
AC Input/Output Data															
Rated AC Input/Output Active Power(W)	3000	3600	4000	5000			6000								
Max. AC Input/Output Apparent Power(VA)	3300	3960	4400	5500			6600								
Peak Power (off-grid)(W)	2 times of rated power, 10s														
Rated AC Input/Output Current(A)	13.7/13.1	16.4/15.7	18.1/17.4	22.8/21.8			27.3/26.1								
Max. AC Input/Output Current(A)	15/14.4	18/17.3	20/19.8	25/24			30/28.7								
Max. Continuous AC Passthrough [grid to load](A)	35						40								
Max. Output Fault Current(A)	30	36	40	50			60								
Max. Output Overcurrent Protection(A)	70														
Rated Input/Output Voltage/Range(V)	220V/230V 0.85Un-1.1Un														
Grid Connection Form	L+N+PE														
Rated Input/Output Grid Frequency/Range	50Hz/45Hz-55Hz 60Hz/55Hz-65Hz														
Power Factor Adjustment Range	0.8 leading-0.8 lagging														
Total Current Harmonic Distortion THDi	<3% (of nominal power)														
DC Injection Current	<0.5%In														
Efficiency															
Max. Efficiency	97.60%														
Euro Efficiency	96.50%														
MPPT Efficiency	>99%														
Equipment Protection															
DC Polarity Reverse Connection Protection	Yes														
AC Output Overcurrent Protection	Yes														
AC Output Overvoltage Protection	Yes														
AC Output Short Circuit Protection	Yes														
Thermal Protection	Yes														
DC Terminal Insulation Impedance Monitoring	Yes														
DC Component Monitoring	Yes														
Ground Fault Current Monitoring	Yes														
Arc fault circuit interrupter (AFCI)	Optional														
Power Network Monitoring	Yes														
Island Protection Monitoring	Yes														
Earth Fault Detection	Yes														
DC Input Switch	Yes														
Overvoltage Load Drop Protection	Yes														
Residual Current (RCD) Detection	Yes														
Surge Protection Level	TYPE II(DC), TYPE II(AC)														
Interface															
Display	LCD+LED														
Communication Interface	RS232, RS485, CAN														
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)														
General Data															
Operating Temperature Range	-40 to +60 °C, >45°C Derating														
Permissible Ambient Humidity	0-100%														
Permissible Altitude	2000m														
Noise	<30 dB														
Ingress Protection(IP) Rating	IP 65														
Inverter Topology	Non-isolated														
Over Voltage Category	OVC II(DC), OVC III(AC)														
Cabinet size(W*H*D) [mm]	330W×433H×229D (Excluding connectors and brackets)														
Weight(kg)	17														
Warranty	Standard 5 years, extended warranty														
Type of Cooling	Natural Cooling	Intelligent Air Cooling													
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105														
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2														

Specification Are Subject To Change Without Prior Notice Due To Constant Improvements In Design & Technology.

TECHNICAL SPECIFICATION

Model	HYB-5-GXLT2	HYB-5.5-GXLT2	HYB-6-GXLT2	HYB-6.6-GXLT2	HYB-7.5-GXLT2	HYB-8-GXLT2	HYB-8.8-GXLT2	HYB-10-GXLT2	HYB-11-GXLT2	HYB-12-GXLT2
Battery Input Data										
Battery Type	Lead-acid or Lithium-ion						Lead-acid or Lithium-ion			
Battery Voltage Range(V)	40-60						40-60			
Max. Charging Current(A)	120	135	190	210	240					
Max. Discharging Current(A)	120	135	190	210	240					
Charging Strategy for Li-ion Battery	Self-adaption to BMS						Self-adaption to BMS			
Number of Battery Input	1						1			
PV String Input Data										
Max. PV Input Power(W)	7500	9000	12000	15000	18000					
Max. PV Input Voltage(V)	800									
Start-up Voltage(V)	160									
PV Input Voltage Range(V)	160-800									
MPPT Voltage Range(V)	200-650									
Full Load MPPT Voltage Range(V)	250-650						350-650			
Rated PV Input Voltage(V)	550									
Max. Operating PV Input Current(A)	20+20									
Max. Input Short-Circuit Current(A)	30+30									
No. of MPP Trackers/No. of Strings MPP Tracker	2/1+1									
Max. Inverter Backfeed Current to The Array	0									
AC Input/Output Data										
Rated AC Input/Output Active Power(W)	5000	6000	7500	8000	10000	12000				
Max. AC Input/Output Apparent Power(VA)	5500	6600	8250	8800	11000	13200				
Peak Power (off-grid)(W)	2 times of rated power, 10s						2 times of rated power, 10s			
Rated AC Input/Output Current(A)	7.6/7.3	9.1/8.7	11.4/10.8	12.2/11.6	15.2/14.5	18.2/17.4				
Max. AC Input/Output Current(A)	8.4/8	10/9.6	12.5/12	13.4/12.8	16.7/16	20/19.2				
Max. Three-phase Unbalanced Output Current(A)	11.4/10.9	13.7/13.1	17/16.2	18.2/17.4	22.8/21.8	27.3/26.1				
Max. Continuous AC Passthrough (grid to load)(A)	45									
Max. Output Fault Current(A)	16.8	20	25	26.8	33.4	40				
Max. Output Overcurrent Protection(A)	65									
Rated Input/Output Voltage/Range(V)	220/380V, 230/400V 0.85Un-1.1Un									
Grid Connection Form	3L+N+PE									
Rated Input/Output Grid Frequency/Range	50Hz/45Hz-55Hz 60Hz/55Hz-65Hz									
Power Factor Adjustment Range	0.8 leading-0.8 lagging									
Total Current Harmonic Distortion THDi	<3% (of nominal power)									
DC Injection Current	<0.5%In									
Efficiency										
Max. Efficiency	97.60%									
Euro Efficiency	97.00%									
MPPT Efficiency	>99%									
Equipment Protection										
DC Polarity Reverse Connection Protection	Yes									
AC Output Overcurrent Protection	Yes									
AC Output Overvoltage Protection	Yes									
AC Output Short Circuit Protection	Yes									
Thermal Protection	Yes									
DC Terminal Insulation Impedance Monitoring	Yes									
DC Component Monitoring	Yes									
Ground Fault Current Monitoring	Yes									
Arc fault circuit interrupter (AFCI)	Optional									
Power Network Monitoring	Yes									
Island Protection Monitoring	Yes									
Earth Fault Detection	Yes									
DC Input Switch	Yes									
Overvoltage Load Drop Protection	Yes									
Residual Current (RCD) Detection	Yes									
Surge Protection Level	TYPE II(DC), TYPE II(AC)									
Interface										
Display	LCD+LED									
Communication Interface	RS232, RS485, CAN									
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)									
General Data										
Operating Temperature Range	-40°C to 45°C									
Permissible Ambient Humidity	0-100%									
Permissible Altitude	3000m									
Noise	≤ 55 dB									
Ingress Protection(IP) Rating	IP 65									
Inverter Topology	Non-Isolated									
Over Voltage Category	OVC II(DC), OVC III(AC)									
Cabinet size(W*H*D) [mm]	386W×660H×250D (Excluding connectors and brackets)									
Weight(kg)	35.2									
Warranty	Standard 5 years, extended warranty									
Type of Cooling	Intelligent Air Cooling									
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105									
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2									

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