

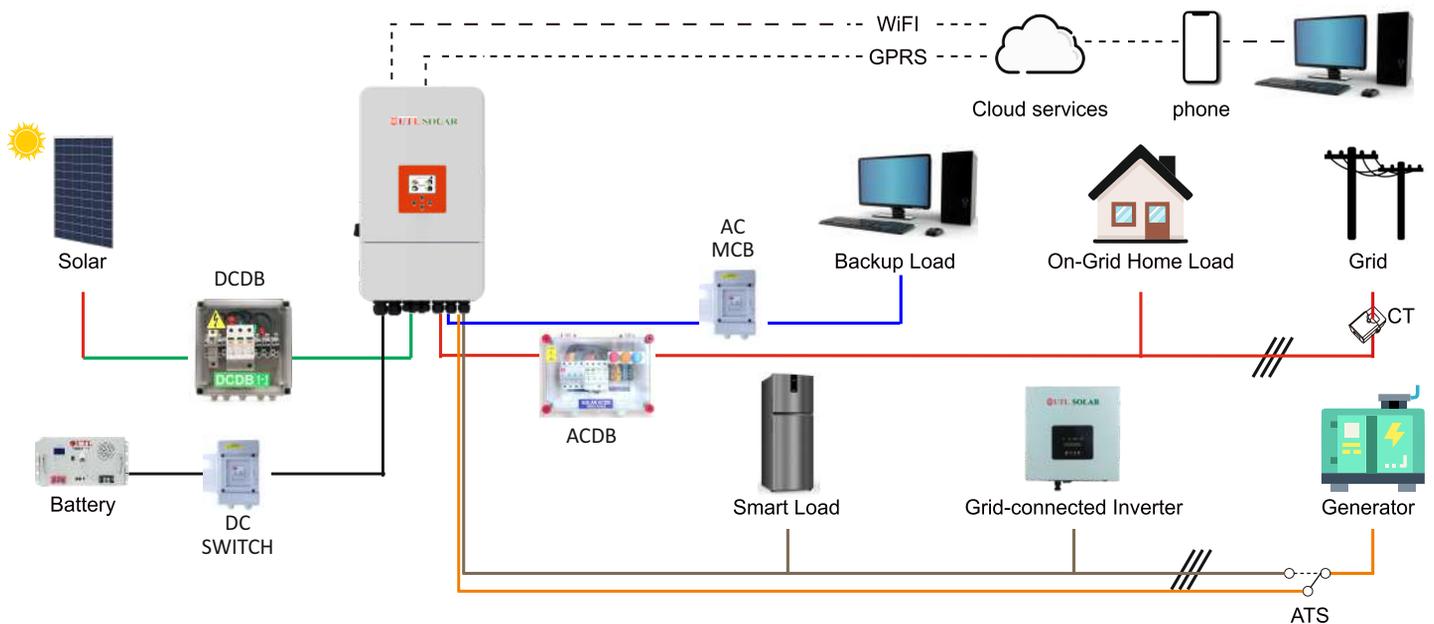


Single Phase & Three Phase HYBRID INVERTER



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-3K-GXLS1	HYB-3.6K-GXLS2	HYB-5K-GXLS2	HYB-6K-CXLS2
Battery Input Data				
Battery Type	Lead-acid or Lithium-ion			
Battery Voltage Range(V)	40-60			
Max. Charging Current(A)	70	90	120	135
Max. Discharging Current(A)	70	90	120	135
Charging Strategy for Li-ion Battery	Self-adaption to BMS			
Number of Battery Input	1			
PV String Input Data				
Max. PV Input Power(W)	4800	5760	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	5000	6000
Max. AC Input/Output Apparent Power(VA)	3300	3960	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	22.8/21.8	27.3/26.1
Max. AC Input/Output Current(A)	15/14.4	18/17.3	25/24	30/28.7
Max. Continuous AC Passthrough (grid to load)(A)	35			
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 , >45C Derating			
Permissible Ambient Humidity	0-100%			
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	Intelligent 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, IS 16221/IEC 62109 , IS 16169/ IEC 62116			

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

TECHNICAL SPECIFICATION

Model	HYB-5K-GXT2	HYB-6K-GXT2	HYB-8K-GXT2	HYB-10K-GXT2	HYB-12K-GXT2
Battery Input Data					
Battery Type	Lead-acid or Lithium-ion				
Battery Voltage Range(V)	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				
Number of Battery Input	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	8000	10000	12000
Max. AC Input/Output Apparent Power(VA)	5500	6600	8800	11000	13200
Peak Power (off-grid)(W)	2 times of rated power, 10s				
Rated AC Input/Output Current(A)	7.6/7.3	9.1/8.7	12.2/11.6	15.2/14.5	18.2/17.4
Max. AC Input/Output Current(A)	8.4/8	10/9.6	13.4/12.8	16.7/16	20/19.2
Max. Continuous AC Passthrough (grid to load)(A)	45				
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 to +60 C, >45 C Derating				
Permissible Ambient Humidity	0-100%				
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, IS 16221/IEC 62109, IS 16169/ IEC 62116				

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