

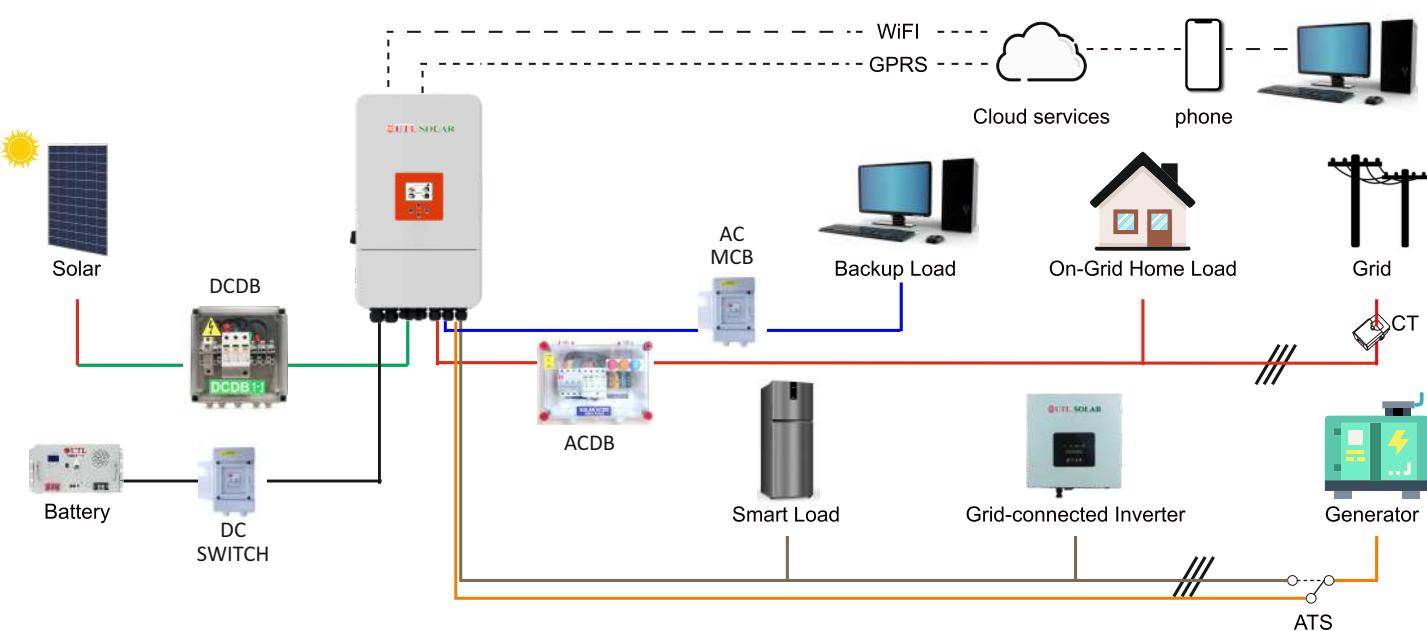


## Single Phase & Three Phase HYBRID INVERTER



### 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			
<b>Battery Input Data</b>							
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						
<b>PV String Input Data</b>							
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						
<b>AC Input/Output Data</b>							
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						
<b>Efficiency</b>							
Max. Efficiency	97.60%						
Euro Efficiency	96.50%						
MPPT Efficiency	>99%						
<b>Equipment Protection</b>							
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)						
<b>Interface</b>							
Display	LCD+LED						
Communication Interface	RS232, RS485, CAN						
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)						
<b>General Data</b>							
Operating Temperature Range	-40 to +60 °C, >45°C 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 &amp; Technology.

## TECHNICAL SPECIFICATION

Model	HYB-5K-GXT2	HYB-6K-GXT2	HYB-8K-GXT2	HYB-10K-GXT2	HYB-12K-GXT2
<b>Battery Input Data</b>					
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				
<b>PV String Input Data</b>					
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				
<b>AC Input/Output Data</b>					
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				
<b>Efficiency</b>					
Max. Efficiency	97.60%				
Euro Efficiency	97.00%				
MPPT Efficiency	>99%				
<b>Equipment Protection</b>					
DC Polarity Reverse Connection Protection	Yes				
AC Output Overcurrent Protection	Yes				
AC Output Overtoltage 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)				
<b>Interface</b>					
Display	LCD+LED				
Communication Interface	RS232, RS485, CAN				
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)				
<b>General Data</b>					
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				

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

# The Power.....

## As and when you need it.



**Inverters | Batteries | Solar PCUs | Online UPSs | EV Chargers |  
VFD | Lithium Batteries | Solar Inverters | Solar Panels**

## FUJIYAMA POWER SYSTEMS LTD.

**Registered Office:** 53A/6, Rama Road Ind. Area, Near Sat Guru Ram Singh Marg Metro Station, Near NDPL Grid Office, Delhi – 110015

**Sales Office:** 2/8A, Plot No-63, 2nd Floor Rama Road Industrial Area Opp. Kirti Nagar Metro Station New Delhi-110015

**Manufacturing Unit 1 :** Khasra No. 182, Vill-Naryal, Parwanoo, Himachal Pradesh-173220, India

**Manufacturing Unit 2 :** Plot No 51-52, Sector - Ecotech 1 Extension 1, Greater Noida, Distt Gautam Budh Nagar, U.P. - 201310, India

**Manufacturing Unit 3 :** Plot No. 5 & 14, Sector 6, HSIIDC, IMT BAWAL, Rewari, Bawal, , HR- 123501, India

+91 7838 885 885

sales@utlups.com

www.upsINVERTER.com