

RAYAX™

The Rays Of Power



SINGLE PHASE HYBRID INVERTER

- GTSI-0304K1P
- GTSI-0506K1P
- GTSI-0810K1P
- GTSI-3.605K1P
- GTSI-0608K1P
- GTSI-1012K1P



Transformerless Design



Remote Monitoring/Controlling



Minimum losses & Maximum Efficiency



Can be Paralleled (up to 10 Nos)



Designed for Lead/Lithium Batteries



100% unbalanced output per phase
Max 50% Rated power per phase



BIS Certified



Easy to Service



Cloud Based Monitoring



5 Years Warranty



Technical Data

MODEL	GTSI-0304K1P	GTSI-3.605K1P	GTSI-0506K1P	GTSI-0608K1P	GTSI-0810K1P	GTSI-1012K1P
Battery Input Data						
Battery Type	Lead-acid or Lithium-ion					
Battery Voltage Range (V)	40-60					
Max. Charging Current (A)	70	90	120	135	190	210
Max. Discharging Current (A)	70	90	120	135	190	210
Charging Strategy for Li-ion Battery	Self-adaption to BMS					
Number of Battery Input	1					
PV Input String Data						
Max. PV Input Power (W)	4800	5760	8000	9600	12800	16000
Max. PV Input Voltage (V)	500					
Start -up Voltage (V)	125					
MPPT Voltage Range (V)	150-425					
Rated PV Input Voltage (V)	370					
Max. Operating PV Input Current (A)	18	18+18			26+26	
Max. Input Short-Circuit Current (A)	27	27+27			34+34	
No. of MPPT Trackers/ No. of Strings MPPT Tracker	1/1	2/1+1			2/2+2	
AC Input/Output Data						
Rated Output Apparent Power (VA) (@ 0.8 PF)	3750	4500	6250	7500	10000	12500
Rated Output Power (W)	3000	3600	5000	6000	8000	10000
Rated AC Output Current (A)	13.1	15.7	21.8	26.1	34.8	43.5
Max. AC Input/Output Current (A)	14.4	17.3	24	28.7	38.3	47.9
Peak Power (off-grid) (W)	2 times of rated power, 10s					
Power Factor Adjustment Range	0.8 leading to 0.8 lagging					
Rated Input/Output Voltage Range (Vac)	220/230 0.85Un-1.1Un					
Rated Frequency (Hz)	50-60 Hz					
Grid Connection Form	L+N+PE					
Total Current Harmonic Distortion THDi	<3% (of nominal power)					
Efficiency						
Max. Efficiency	97.60%					
Euro Efficiency	96.50%					
MPPT Efficiency	>99%					
Equipment Protection						
Protection	PV Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, Island Protection Monitoring, Battery Power Polarity Protection, SPD Inbuilt					
Surge Protection	TYPE II(DC), TYPE II(AC)					
Interface						
Communication Interface	RS485/RS232/CAN					
Remote Monitoring	GPRS/WIFI					
General Data						
Operating Temperature Range (°C)	-40 TO + 60°C, (>45°C Derating)					
Permissible Ambient Humidity	0-100%					
Permissible Altitude	2000m					
Ingress Protection (IP) Rating	IP65					
Inverter Topology	Non-Isolated					
Over Voltage Category	OVC II(DC), OVC III(AC)					
Cabinet Size (WxHxD mm)*	330x433x229			330x580x232	420x670x233	
Weight (kg)*	17			24.9	35.6	
Type of Cooling	Natural Cooling			Intelligent Air Cooling		

*Due to continuous product innovation, dimensions and weight may differ from the datasheet.

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