



## SINGLE PHASE HYBRID INVERTER *HALION PRO Series*

GTSI-0304KH1P | GTSI-0506KH1P | GTSI-1012KH1P



BIS Certified



Easy to Service



Cloud Based Monitoring



3 Years Warranty (Extendable)



Transformerless Design



Suitable for outdoor use (IP54)



Can be Paralleled (up 8 Nos)



Designed for Lead / Lithium Batteries



Supports Batteryless Operation



Supports off-Grid & Hybrid modes



# Technical Data

MODEL	GTSI-0304KH1P	GTSI-0506KH1P	GTSI-1012KH1P
<b>Battery Input Data</b>			
Battery Type	Lead - acid or Lithium-ion		
Battery Voltage Range (V)	20-30Vdc	40-60Vdc	40-60Vdc
Max. Charging Current (A)	110A	110A	140A
Max. Discharging Current (A)	110A	120A	200A
Charging Strategy for Li-ion Battery	Self - Adaption to BMS		
Number of Battery Input	1		
<b>PV Input String Data</b>			
Max. PV Input Power (W)	4500W	7500W	15000W
Max. PV Input Voltage (V)	500 Vdc		
Start -up Voltage (V)	125 Vdc		
MPPT Voltage Range (V)	125 - 500 Vdc		
Rated PV Input Voltage (V)	300 - 400 Vdc		
Max.Operating PV InputCurrent (A)	27A	27A	27 + 27A
No. of MPPT Trackers/ No. of Strings MPPT Tracker	1/1		2/1
<b>AC Input/Output Data</b>			
Rated Output Power (W)	3000W	5000W	10000W
Rated Output Apparent Power (VA)	3600VA	6000VA	12000VA
Rated AC Output Current(A)	17.4A	26.9A	47.8A
AC input/Output Voltage Range	170-280 V (in UPS mode) 90-280 V (in wide range mode)		
Peak Power (Stand alone)	11s@105%~150%, 2s@150%~200%		
Power Factor Adjustment Range	0.8 Leading to 0.8 lagging		
Rated Input/Output Voltage Range (Vac)	220/230/240 VAC		
Rated Frequency (Hz)	50/60 Hz + 0.1%		
Grid Connection Form	L+N+PE		
Total Current Harmonics Distortion THDi	<5% (of nominal power)		
<b>Efficiency</b>			
Max. Efficiency	97.60%		
Euro Efficiency	96.50%		
MPPT Efficiency	>99%		
<b>Equipment Protection</b>			
Protections	AC Over Voltage, AC Under Voltage, AC Output Over Current , AC Output Short Circuit , PV Under Voltage, PV Over Voltage, Battery Under Voltage, Battery Over Voltage, Anti-islanding, Over Temperature, Overload, Battery Reverse Polarity, PV Reverse Polarity, Load Short Circuit.		
Surge Protection	TYPE II (PV), TYPE II (Grid)		
<b>Interface</b>			
Communication Interface	RS 232/RS 485		
Remote Monitoring	Wi-Fi		
<b>General Data</b>			
Operating Temperature Range ( °c)	-10 - 50°C		
Permissible Ambient Humidity	20% -95% (No Condensation)		
Permissible Altitude	1000m (derating above that)		
Ingress Protection(IP) Rating	IP54		
Inverter Topology	Non-Isolated		
Over Voltage Category	OVC II (DC), OVC III (AC)		
Cabinet Size (WxHxD mm)*	660x508x234		780x525x262
Weight (kg)*	19.17	20.22	30.3
Type of Cooling	Temperature controlled fan cooled.		