

High Efficiency Grid Tie Inverter for Renewable Power



Features

- AC circuit breaker included
- Can be operated and connected to batteries
- Suitable for user with solar modules, wind generators, Micro Hydro and other renewable sources
- Maximum power point tracking system (MPPT)
- Galvanically isolated
- High efficiency toroidal transformer
- Pure sine wave power output and low total harmonic distortion
- Clear LCD display on the front with accurate read-out information and parameters setting and operation messages
- Communication with Combi-3 / CombiPlus / SuperCombi without limitation of power

Specifications

<b>Model No.</b>	12 Volt System 24 Volt System 48 Volt System 96 Volt System	GTI-2000-12X (1) GTI-2000-24X GTI-2000-48X GTI-2000-96X
<b>Ventilation</b>	Fan Forced cooling	
<b>Temperature</b>	– Operation – Storage	-10°C ~ +70°C -25°C ~ +80°C
<b>Protection</b>		
a. Output short circuit	✓	
b. Over load	✓	
c. Battery voltage too high	✓	
d. Battery voltage too low	✓	
e. DC input voltage too high	✓	
f. DC input voltage too Low	✓	
<b>Transformer</b>	(105°C)	
<b>Electronic &amp; Powerstage</b>	(70°C)	
<b>Humidity</b>	0~95% (non condensing)	
<b>Combi Connect</b>	✓	
<b>Direct Feed</b>	✓	
<b>Anti-Islanding</b>	(Less than 10 msec)	
<b>Direct Battery Connection</b>	✓	
<b>3-phase Capacity</b>	✓	
<b>Parallel Operation</b>	✓	
<b>Remote Control Port</b>	✓	
<b>Extension Port for PC Connection</b>	✓	

<b>AC OUTPUT</b>	
Output Voltage	205 ~ 270V
Continue. Power Output @ 50°C (W) Under 50°C (cos θ =1.0)	2000Watt (No derate 50°C)
Cont. Power Output (W) Over 70°C (cos θ =1.0)	0W (Shutdown)
<b>Maximum Power (W)</b>	2200Watt
<b>Efficiency (%)</b>	82 / 84 / 85 / 90
<b>DC INPUT</b>	
Maximum DC Input Voltage (Vpeak)	50V / 100V / 200V / 400V
Maximum Input Current (A)	180A / 90A / 45A / 22A
Input Voltage operating Range (Vdc) MPPT Mode	16.5~32V / 33~64V / 66~128V / 132~256V
Input Voltage operating Range (VDC) Battery Mode	13.5~50V / 27~100V / 54~200V / 108~400V
Battery Voltage Default (VDC)	12V / 24V / 48V / 96V
(1) X should be 1, output voltage = 102~135 VAC or 2, output voltage = 205~270 VAC Eg. GTI-2000-121= 110VAC Model and GTI-2000-122 = 230VAC Model.	
<b>AC INPUT</b>	
Detection Time AC Input Fault	< 10 msec.
Normal AC Input Range	102VAC ~ 135VAC 110v Model 205VAC ~ 270VAC 230v Model
Trip Level AC Low Input	101VAC 110v Model 204VAC 230v Model
Trip Level AC High Input	136VAC 110v Model 271VAC 230v Model
Min.~Max. Frequency Range	50 ± 1 Hz / 60 ± 1 Hz
<b>MECHANICAL</b>	
Cabinet / Protecting Class	Aluminum / IP20
Dimension (HxWxD) mm	368 x 256 x 424
Weight (kgs)	26