

GREENtriera Series

*On-Line Double Conversion "3Level Inverter" Technology
1 Phase in- 1 Phase out, 3 to 10 kVA*

- ▶ *On-line Double conversion "3Level Inverter" Technology*
- ▶ *Real Digital Signal Processor (DSP) controlled IGBT Technology*
- ▶ *High AC-AC Efficiency (94%)*
- ▶ *High Output power factor (0.9)*
- ▶ *Increased Input Power Factor (p.f. > 0,99)*
- ▶ *Low Input Current THD (<6%)*
- ▶ *Low Output Voltage THD (<1.5%)*
- ▶ *Wide input voltage range (90 V - 270 V)*
- ▶ *Cold Start & Soft Start Features,*
- ▶ *Availability to start up from Mains without batteries,*
- ▶ *Intelligent battery management system extends the life time of batteries,*
- ▶ *Transformerless Design, Compact dimensions,*
- ▶ *Smart fan speed regulation according to Temperature,*
- ▶ *Multi-Functional LCD display (availability to adjust or calibrate the UPS, no need for software),*
- ▶ *Advanced LCD Panel Menu (availability to monitor 15 different parameters),*
- ▶ *Event Log Display up to 500 Events,*
- ▶ *Availability to configure as 50/60Hz Frequency Converter from LCD Panel,*
- ▶ *Advanced communication possibility via RS232 ,*
- ▶ *Management and monitoring software available for all operating systems,*
- ▶ *SNMP, Modbus, USB Card, Dry Contact & EPO Card (adjustable 5 relays) Options,*



Green triera Series Technical Specifications

Model	GTR1103		GTR1105		GTR1106		GTR1108		GTR1110	
Power (kVA / kW)	3kVA / 2.7kW		5kVA / 4,5kW		6kVA / 5,4kW		8kVA / 7,2kW		10kVA / 9kW	
Output Power factor	0.9									
Overall Efficiency (AC-AC)	94%									
INPUT										
Nominal Voltage	220V/230V/240V									
Minimum Voltage (at half load)	90V									
Minimum Voltage (at full load)	180V									
Maximum Voltage	270V									
Frequency	45-65 Hz									
Power Factor	>0,99									
Current Harmonics	< 6 %									
OUTPUT										
Nominal Voltage	220VAC (factory set & adjustable from LCD panel with IV steps from 208V to 242V)									
Voltage Tolerance	±1%									
Nominal current @220V	13,6A	23A		27A		36,4A		45,5A		
Wave Form	Pure Sine Wave									
Total Harmonic Distortion										
at 100% linear load	<1,5%									
at 100% non-linear load	<3,5%									
Frequency	50Hz or 60Hz (adjustable from LCD Panel)									
Frequency Tolerance(battery operation)	0,005 %									
Static Voltage Regulation (0%-100% load)	1%									
Dynamic Voltage Regulation (0%-100% load)	5%									
Crest Factor	3:1									
Overload										
100% to 125% overload	10 min									
125% to 150% overload	1 min									
Greenmode (Ecomode) Efficiency	> 98%									
BATTERY										
Type	Maintenance-free lead acid batteries									
Quantity (pcs)	14	20								
Recharge Time	< 6h - 8 h									
Warning	Audible Buzzer through the end of Battery Discharge									
DISPLAY PANEL										
LCD Panel	"Load %, Input/Output/Bypass Voltages, Output Power (W & VA), Output Current, Output p.f., Battery +/- Voltage Values, Input / Output Frequency, DC Bus +/-Voltages, Remaining Back Up Time, Internal Temperature, Heatsink Temperature"									
Event Log	500pcs (control availability in detail from LCD panel)									
Audible and Visual Alarm Warning	41 different Alarm Messages									
BY-PASS										
Voltage Tolerance	±10% (adjustable)									
Frequency Tolerance	3Hz (adjustable from LCD panel between 0.5Hz to 5Hz)									
Transfer Time	0 ms									
Overload Capability	up to 175%									
PROTECTION										
Overload Protection	Bypass transfer time is calculated by simulating a temperature related model of a fuse									
Short Circuit Protection	Acts as the ideal current source during the short circuit time									
Other Protection	Protection against excessive heat,voltage,current & Deep Discharge Protection									
COMMUNICATION										
Interface (Communication Ports)	RS232 (standard), SNMP, Modbus and USB (optional)									
Dry Contact Port (Option)	5pcs from LCD Panel adjustable dry contact signals									
ENVIRONMENT										
Operating Temperature	0 °C..... + 40 °C									
Storage Temperature	-15 °C.....+55 °C									
Proposed Temp. to extend battery life	20 - 25 °C									
Humidity	< 95%									
Maximum Altitude	1000m									
Audible Noise (from 1m distance)	<50 dB									
Protection Class	IP 20									
PHYSICAL SPECIFICATIONS										
Net Weight(without battery)	32kg	33kg		34kg		43,5kg		44kg		
Dimensions(mm) (WxDxH)	272mm x 740mm x 758mm									
STANDARDS										
Standards	EN 62040-1-1 (safety), EN 62040-2(EMC), EN 62040-3(Performance)									