TİATO

WTT Series

3 PHASE — 12VDC: 50A-200A, 24VDC: 30A-300A
48VDC: 30A-150A, 110/220VDC: 30A-200A

1 PHASE — 12/24VDC: 10A-300A, 36/48VDC: 10A-150A
110VDC: 10A-200A, 220VDC: 10A-100A

THYRISTOR CONTROLLED BATTERY CHARGER

Usage Areas:

- Transformer Centers
- Vessels and Yachts
- Shipyards
- Rail Systems
- Solar Power Plants
- Automobile Services
- Hospitals
- Electrical Devices
- Energy Generation
- Transmission and Distribution Centers
- Petroleum and Natural Gas Industry
- Mining Industry

HIGHLIGHTS

- Thyristor Controlled, Full Automatic System with Isolation Transformer
- Available for Using as DC Current Supply
- All Operating Values Adjustable
- Excess/Low Voltage, Over Current, Short Circuit Protection

Thyristor Controlled Transformer Battery Charging Rectifier

- Transformer battery charging devices are AC/DC rectifiers with automatic constant voltage and constant current properties. The isolation transformer and the load and batteries are completely isolated from the grid system.

- Thyristor control ensures fast regulation and voltage distortions in the mains do not affect the batteries and loads. With the L-C filters on the output, the AC output fluctuation on the DC is less than 1%, helping to maximize the life of the charged battery pack.

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WATTERIES

TIATO

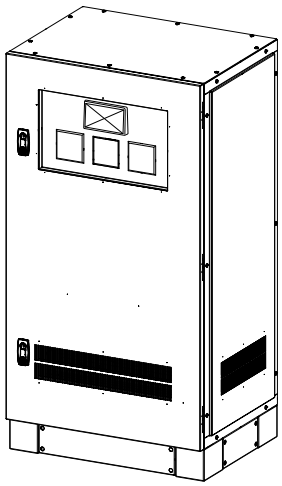
WTT Series

12VDC: 50A-200A, 24VDC: 30A-300A, 48VDC: 30A-150A, 110/220VDC: 30A-200A
12V/24VDC: 10A-300A, 36/48VDC: 10A-150A, 110VDC: 10A-200A, 220VDC: 10A-100A

3 PHASE
1 PHASE

THYRISTOR CONTROLLED BATTERY CHARGER

MODEL		
INPUT		
Phase	3 Phase	1 Phase
Voltage	380 V, 400 V, 415 V	220 V, 230 V, 240 V
Voltage Tolerance	±20%	
Frequency	50/60Hz (±5%)	
Power Factor	>0.8	
THDi	<30%	
OUTPUT		
Voltage	12 / 24 / 48 / 110 / 220 VDC	
Voltage Tolerance	±1%	
Current	Up to 300A	
Fast Charging (Boost) Voltage	Up to 120% of the Float Voltage	
Ripple	±1% RMS AC	
Dynamic Response	±2%	
Output Protection	Electronic Short Circuit / Over Voltage / Over Temperature / Over Current	
	Reverse Voltage (Reverse Connection) Protection	
INDICATOR/COMMUNICATIONS		
LCD Indicator	Voltage, Current, Temperature and Status Information	
LED Indicator	Mains, Normal, Output, Fault	
Alarm	Mains Out of Limit, Fault (Adjustable)	
Communication	RS485 / Modbus Communication Feature	
NTC Input	Battery Temperature Compensation	
Parallel	Redundant Operation with Active or Passive Load Sharing Option	
Programmed Operation	Special Process is Applied for Each Process	
Input / Output Connection	Thermic Magnetic Switch / Copper Bus Bar	
GENERAL		
Topology	Isolation Transformer, Thyristor Phase Angle Controlled	
Electrical Standards	EN60146-1-1, EN60335-1 / EN60335-2-29/A2(LVD)	
	EN61000-6-2 / EN61000-6-4 (EMC)	
Cooling	Forced (Fan)	
Isolation Voltage	2500VAC Output/Chassis Bridge	
Efficiency	>85%-92%	
Operating Temperature	0-50°C	
Humidity	5%-90%	
Protection Class	IP20-IP54	
Altitude	Max. 2000m	



OPTIONS

- Individual Outputs for Battery and Load
- Additional LVD Contactor Separating Load and Battery from each other
- Battery Racks Integrated into the Rectifier
- Chassises with Different Protection Class (IP31/IP42/IP54/IP65)
- DC +/- Ground Leakage Protection
- Redundant Operation with Active or Passive Load Sharing Option
- Battery Monitoring / Management System (BMS)
- Analog Hand Measuring Instruments
- Battery Charge Temperature Compensation
- ModBUS Communication

WATTERIES