

# TCHARGER CHARGING RECTIFIER

7kW

## GENERAL SPECIFICATIONS

- Microprocessor-controlled
- Digital monitoring of voltage, current, temperature, charging status, and device information
- Adjustable fast nominal charging voltages
- Adjustable output current / High voltage protection
- Overcurrent protection / Short circuit protection
- High temperature protection / Input filter
- Control panel / Alphanumeric LCD display
- DC low voltage protection (LVD) (optional)
- External alarm contacts

## INDICATOR LIGHTS

- Overload
- Mains present/absent
- Battery operation
- Load status
- DC Low voltage protection
- General fault
- Easy navigation in menu via keypad



## Front Panel LCD Display (Alphanumeric)

- Voltage, current, temperature, charging, and device status information can be monitored digitally.

FEATURES	ADVANTAGES
SMPS technology	Small dimensions and low weight
Control by microprocessor technology	It uses the available resources to their full extent within reliable limits
	It monitors fault conditions with great precision
Wide input voltage range (mains voltage 176 - 265V operation)	As a result, the device uses the batteries less frequently. The battery life is extended, and the likelihood of the batteries being fully charged during a power outage increases
Double conversion topology	The device's output voltage is in an ideal DC form. In other words, the ripple on the device's output voltage is low. This is very important for systems and batteries powered by the device.
Temperature management	It determines the overload duration with high reliability
	It provides advanced over-temperature protection
Modular system structure	It has an expandable modular structure with the ability to be parallelized up to 7 devices
Dry contact information	With the relay and microprocessor communication system, you can monitor and keep your device under control from your automation system
Strict output voltage regulation	The output voltage is not affected by changes in the input voltage or load amount
High efficiency	High efficiency is achieved with SMPS technology

## TECHNICAL SPECIFICATIONS

MODEL	TOWER	TDC12-250-T	TDC24-250-T	TDC36-155-T	TDC48-115-T	TDC60-93-T	TDC72-72-T	TDC96-57-T	TDC110-55-T
	RACK	TDC12-250-R	TDC24-250-R	TDC36-155-R	TDC48-115-R	TDC60-93-R	TDC72-72-R	TDC96-57-R	TDC110-55-R
Output current(A)		250	250	155	115	93	72	57	55
Output DC voltage (V)		12	24	36	48	60	72	96	110
<b>INPUT</b>									
Input phase number	1/3 Phase								
Input phase voltage tolerance	± 20%								
Input frequency	45Hz / 65Hz								
Power factor	> 0,92								
<b>OUTPUT</b>									
Output voltage (V)	12	24	36	48	60	72	96	110	
Output voltage adjustment range (V)	0-15	0-30	0-45	0-60	0-75	0-90	0-120	0-135	
Fast charging voltage (V)	100% to 120% user defined								
Max. output current (A)	105% Rated current value								
Output ripple	± 5% rms AC output voltage								
Dynamic response	< 2% Nominal value								
Output protection	Electronic short circuit / Over voltage / Reverse voltage protection / Over temperature / Over current / ± DC leakage current protection								
<b>GENERAL</b>									
Cooling	Forced (with fan)								
Isolation voltage	2000 VAC output / between chassis								
Efficiency	> 90%								
Operating temperature	0-50°C								
Humidity	5-90%								
Input/Output connections	Terminal block								
Fuses	Thermal magnetic automaton for input - output, battery automaton (fitted when LVD option is selected)								
<b>DISPLAY INFORMATION</b>									
LCD Display panel	Voltage, Current, Temperature, Charge and Status Information (alphanumeric)								
LED Display information	Overload, Mains, Battery, Load, LVD, Fault information								
<b>STANDARDS</b>									
Cabin protection class	IP20								
Emc	EN61204-3								
Safety	EN60335-1 / EN60950								
<b>OPTIONS</b>									
External alarm contacts	Normally open or closed (7 dry contacts)								
LVD	DC Undervoltage protection								
Parallelisation card	Parallelisation up to 7 units								
<b>DIMENSIONS</b>									
Net weight (kg)	Tower	21							
Dimensions WxDxH (mm)		245x450x410							
Net weight (kg)	Rack	37							
Dimensions WxDxH (mm)		483 (19")x700x177 (4u)							