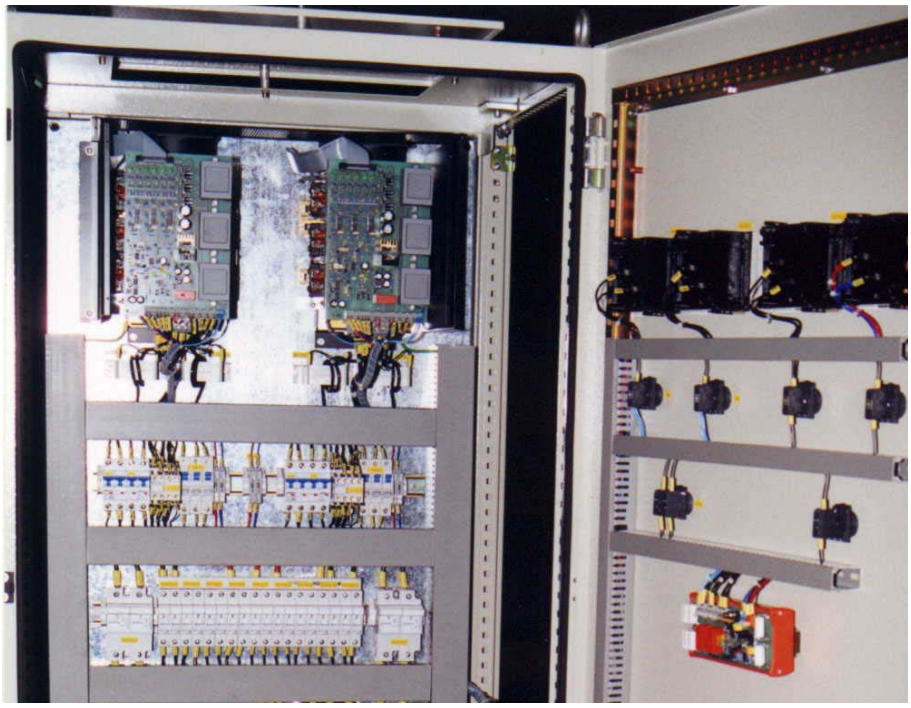
Thyristor chargers TY



Purpose of use

Phase-controlled, bridge-type, thyristor chargers **XX / XX TY** are intended for charging station batteries with higher capacities and for supplying DC circuits in parallel and standby operation. Thyristor chargers of the TY series fully comply with the requirements of the station battery charging standard EUROBAT. They can be used to charge batteries made by all manufacturers that adopted this standard.

Construction

The power section of the charger is based on potential-free semiconductor devices that are placed on an Al heat sink. The thyristor converters of the charger are supplied from the mains through power transformers, which ensure the regulation section of the converter and the thyristor converter are galvanically separated from the supply mains. The regulation section of the charger is galvanically separated from power circuits with impulse transformers, which also generate line-shaped make pulses for the thyristors.

With their modular design, chargers of the XX / XX Ty series can be used flexibly at all current and voltage levels.

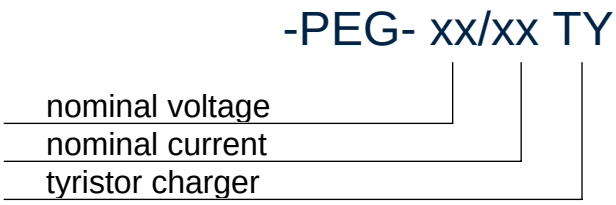
Converters up to 50A are self-cooled, versions above 50A have forced cooling. The fan is switched on depending on the actual strength of charging current, which considerably prolongs its life.

PEG spol. s r.o., Baarova 49, 140 00 Praha 4
Provozovna Kolbenova 922/5a, 190 00 Praha 9
www.peg.cz
peg@peg.cz
Tel: 281 087 521, fax: 281 087 522
GSM O_2: 724 366 435, T-mob: 731 118 119

Parameters

Basics types	
U_{in}	230 V AC
	3x 400/230 V AC
I_{in}	depend on load
f_{in}	50 Hz
$U_{nominal}$	12, 24, 48, 60, 110, 220 V DC
I_{max}	potential-free modules 300 A
	pastille thyristors up to 1000 A
Current ripple	<5%
Efficiency	>92%
Power factor	>0,97
Parallel operation	YES
Short circuit protection	YES
Temperature compensation	NO
Interface	NO
Operating temperature	From -10 to +40 °C
Dimensions	depend on load
Weight	depend on load
Protection	IP 20

Type code



For detailed technical or commercial queries contact – PEG – s.r.o.

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