

## Transistor chargers TR-ST



### Purpose of use

Transistor chargers of the TR-ST series are intended for charging station batteries and supplying DC circuits in parallel and standby operation. Transistor chargers of the TR-ST 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. The TR-ST chargers restrict current both to the battery and to the off-take.

### Construction

The power section of the charger is based on potential-free IGBT transistors with integrated zero diode, or on FET transistors for low output currents and low voltages (up to 15 A and 24 V). The power section has natural cooling, or forced cooling for higher output currents (over 30 A). The fan module is switched on depending on the strength of charging current, which considerably prolongs the service life of the charger's fan section.

The regulation section is analogue, with two basic control loops that ensure the regulating IU characteristic.

With their modular design, chargers of the xx/xx TR-ST series can be used flexibly at all current and voltage levels.

## Parameters

Basics types	
$U_{in}$	230 V AC
$I_{in}$	depend on load
$f_{in}$	50 Hz
$U_{nominal}$	12, 24, 48, 60, 110, 220 V DC
$I_{max}$	natural cooling up to 30 A
	force cooling up to 40 A
Current ripple	<3%
Efficiency	>92%
Power factor	>0,94
Parallel operation	YES
Short circuit protection	YES
Temperature compensation	NO
Logical inputs	NO
Logical outputs	NO
Interface	NO
Operating temperature	From 0 to +40 °C
Dimensions	172x292x212 mm
Weight	<10 kg
Protection	IP 20

## Type code

**-PEG- xx/xx TR-ST**

nominal voltage	
nominal current	
transistor charger	

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