

ST/DT series step up & step down transformer, 100VA - 10,000VA

Single-phase autotransformer that converts 110-120V to 220-240V and back again from the same winding. Thirteen capacities on three enclosure frames, selected by a rotary input tap switch, with fuse and MCB protection on the input side. Built for importers, panel builders and contractors who need one SKU family to cover both 110V and 220V markets.

HOW IT WORKS

The unit is a single-winding autotransformer. The rotary selector picks the primary tap that matches the mains at the installation point (110, 120, 220 or 240V); the output is taken from the opposite tap, so the same hardware steps up into a 110V country and steps down into a 220V country. Because it is not an isolated transformer, it is smaller, lighter and cheaper than a double-wound unit of the same rating - but the output is not isolated from the mains.

MODEL RANGE, PACKING AND INDICATIVE PRICE

Model	Capacity	Input / output	Carton (cm)	Pcs/ctn	FOB ref.*
ST/DT-100	100VA	110-120V / 220-240V	41.5x27x38	12	US\$ 10-15
ST/DT-200	200VA	110-120V / 220-240V	41.5x27x38	12	US\$ 11-16
ST/DT-300	300VA	110-120V / 220-240V	48x29x41	12	US\$ 12-18
ST/DT-500	500VA	110-120V / 220-240V	48x29x41	12	US\$ 12-20
ST/DT-750	750VA	110-120V / 220-240V	48x29x41	12	US\$ 18-26
ST/DT-1000	1000VA	110-120V / 220-240V	49.5x33x21	2	US\$ 21-30
ST/DT-1500	1500VA	110-120V / 220-240V	49.5x33x21	2	US\$ 23-35
ST/DT-2000	2000VA	110-120V / 220-240V	49.5x33x21	2	US\$ 25-37
ST/DT-3000	3000VA	110-120V / 220-240V	54.5x33x24.5	2	US\$ 33-43
ST/DT-4000	4000VA	110-120V / 220-240V	54.5x33x24.5	2	US\$ 44-54
ST/DT-5000	5000VA	110-120V / 220-240V	54.5x33x24.5	2	US\$ 52-62
ST/DT-7500	7500VA	110-120V / 220-240V	42.5x33x28	1	US\$ 75-87
ST/DT-10000	10000VA	110-120V / 220-240V	42.5x33x28	1	US\$ 85-112

* Indicative FOB band for 50 pcs per size, Ningbo. Final price depends on voltage combination, socket standard, enclosure and order quantity.

ELECTRICAL SPECIFICATION

Conversion	Step up and step down, bidirectional on one winding
Number of phases	Single phase
Input voltage	110-120V / 220-240V, rotary tap selection (other voltages to order)
Output voltage	110-120V / 220-240V - opposite of the selected input
Frequency	50 / 60 Hz
Efficiency	80% typical at rated load
Protection	Input fuse + MCB, ON/OFF switch with indicator lamp
Cooling	Natural air convection, no fan
Operating temperature	0 to +40 C ambient
Enclosure	Ventilated metal case, carrying handle, socket outlet optional
Compliance	CE, RoHS; produced under an ISO 9001 quality system

TYPICAL APPLICATIONS

- Imported 110V equipment on a 220V site

US, Japanese and Taiwanese machines, lab instruments and appliances powered from a 220-240V supply.

- Export machinery validation

Run a 110V machine at full load in a 220V factory before it ships.

- CNC and machine-tool cells

3-10kVA models feed a whole panel: control, drives and lighting on one voltage.

- HVAC and refrigeration service

Compressors with high starting current, sized with inrush margin.

- Retail and food service

POS, printers, rice cookers, water dispensers and display chillers.

- Site offices in the Gulf and Africa

240V site power feeding contractor tools bought for a 110V market.

ORDERING INFORMATION

Minimum order quantity	1 pc for standard models. Trial orders below MOQ can be discussed for first-time buyers.
Custom / OEM orders	50 pcs for custom voltage, custom socket layout, branded front panel or non-standard capacity.
Sample policy	1-2 pcs for verified buyers. Sample lead time 3-5 working days.
Production lead time	10-20 working days for standard models; 15-25 working days for OEM or custom builds.
Packing	Export carton with foam, carton quantity as per the model table.
Payment terms	100% TT in advance for samples and retail orders; 30% deposit, balance before shipment for bulk.
Shipping	FOB Ningbo. CIF and door-to-door available on request.
Warranty	12 months from the delivery date.
Documentation	Packing list and routine test report standard. CE, RoHS, IEC declarations and ISO 9001 records on request.

WHAT TO SEND WITH YOUR ENQUIRY

1. Input voltage and output voltage, plus the destination country standard
2. Load in VA, or the equipment list in watts (note any motors or compressors)
3. First order quantity and expected annual volume
4. OEM requirements: logo, front panel colour, socket type, cable length, packaging

Request a quotation

WhatsApp / WeChat: +86 156 5876 3197 Email: sales@johsuntech.com Web: johsuntech.com Reply within one working day, Mon-Sat.