STU series step up & step down converter, 100VA - 5,000VA

Passive single-phase AC converter for automation panels, sensors and small drive systems. Four standard input taps (110 / 120 / 220 / 240V) selected by hand at commissioning, output at 110-120V or 220-240V, and a 5A USB outlet on the case for programming laptops. No switching stage, so no high-frequency ripple is put onto the supply.

WHAT STU IS - AND WHAT IT IS NOT

STU is an AC-to-AC transformer. It does not rectify, so it is not a DC power supply: the output is a clean sine wave at the selected voltage, and the USB outlet is an auxiliary 5V tap for small devices only. Buyers who need regulated DC rails should specify a separate DIN-rail power supply alongside it.

MODEL RANGE AND PACKING

Model	Capacity	Input taps	Carton (cm)	Pcs/ctn
STU-100	100VA	110 / 120 / 220 / 240V	41.5x27x38	12
STU-200	200VA	110 / 120 / 220 / 240V	41.5x27x38	12
STU-300	300VA	110 / 120 / 220 / 240V	48x29x41	12
STU-500	500VA	110 / 120 / 220 / 240V	48x29x41	12
STU-750	750VA	110 / 120 / 220 / 240V	48x29x41	12
STU-1000	1000VA	110 / 120 / 220 / 240V	49.5x33x21	2
STU-1500	1500VA	110 / 120 / 220 / 240V	49.5x33x21	2
STU-2000	2000VA	110 / 120 / 220 / 240V	49.5x33x21	2
STU-3000	3000VA	110 / 120 / 220 / 240V	54.5x33x24.5	2
STU-4000	4000VA	110 / 120 / 220 / 240V	54.5x33x24.5	2
STU-5000	5000VA	110 / 120 / 220 / 240V	54.5x33x24.5	2

ELECTRICAL SPECIFICATION

Conversion	Bidirectional AC-AC, passive transformer, no switching stage
Number of phases	Single phase
Input voltage	110 / 120 / 220 / 240V rotary selection; bespoke windings available
Output voltage	110-120V or 220-240V, plus 5A USB outlet on the case
Frequency	50 / 60 Hz
Protection	Input fuse + MCB, ON/OFF switch with indicator
Cooling	Natural air convection; electrically quiet for instrumentation cabinets
Operating temperature	0 to +40 C ambient
Enclosure	Metal case, carrying handle up to the 3,000VA frame, single or twin sockets to order
Compliance	CE, RoHS; produced under an ISO 9001 quality system

TYPICAL APPLICATIONS

- Automation and PLC panels

Fixed 110V or 220V control rail for PLC supplies, relays and interface boards.

- Sensors and instrumentation

No switching harmonics, so analogue signals on the same panel stay clean.

- HVAC control cabinets

Damper actuators, controllers and thermostats imported at a different mains voltage.

- Small drives and pumps

Feed one VFD or soft starter where panel voltage differs from plant supply.

- Telecom and CCTV enclosures

Camera and recorder kits supplied at 110V into a 220V building.

- Workshop test benches

USB outlet runs a programming laptop from the same box.

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.