

### technical data

standard compliance

- IEC 60076
- EN 61558

### certifications

CE

primary / secondary voltage range

- up to 1000V

### capacity

- single phase  
50VA ~ 100KVA
- three phase  
50VA ~ 2000KVA

### winding material

- copper or aluminium
- polyester enamelled wire  
155°C (Class F) &  
180°C (Class H)
- Fiberglass wire  
180°C (Class H)

### silicon steel

- good quality, non grained oriented and low loss grained oriented silicon steel

### varnish

- high grade high temperature polyester varnish

### insulation class

- class F or H

### cooling

- natural air cool

### ambient temperature

- maximum 40°C

### metal enclosure protection class

- standard: IP21 (other protection class is available upon request)

### standard series



three phase



single phase



metal enclosure

### introduction

QPS Power Transformer is suitable for any industrial, commercial, manufacturing and production process application. Power Transformer can be offered for a variety of environment conditions, for instance K factor transformer, UPS transformer, and marine transformer. QPS transformer is safe, reliable and durable. Not only do we produce top quality transformers but we also custom build transformers according to customers' design and specifications. With the continuous development in all phases of the design and manufacturing processes, we now offer dry-type transformers up to 2000KVA (2MVA).

### enclosures

Enclosures for QPS transformers are manufactured from cold-rolled steel sheet and finished with epoxy powder coat. Different Ingress Protection (IP) categories could be supplied upon request, which is up to IP44. Enclosures can also be manufactured to meet customers' special requirements.

### type testing

Upon request, the following type test can be carried out at extra costs.

- temperature rise test

Certifications by testing body are available upon request.

### accessories

Optional accessories may be requested at an additional cost:

- over-current protection device: MCB / MCCB
- surge protection device
- temperature measurement device
- lamp indicator
- castor wheels
- ventilation fan

### facilities

- foil winding machines
- wire winding machines
- vacuum impregnation facility
- comprehensive testing equipment



three phase



three phase



two phase

**k-factor transformer**

The use of electronic equipment is growing rapidly in both the commercial and industrial sectors. These electronic devices are powered by either switching power supplies or a rectifier circuit. Some examples of these devices include UPS, computers, fax machines and printers. These are contributing to the distortion of the current waveform and the generation of harmonics. Harmonics are defined as currents created by non-linear loads, which generate non-linear current waveforms. Some of the examples in which the harmonics presence include apparatus vibration, overheating of electrical equipment and electronic devices malfunction.

K-Factor transformer is designed to withstand the harmonic distortion associated with these loads. It is suitable for building security and as a bypass transformer for UPS systems, computers and peripherals, telecommunication, laboratory instrumentation and office automation.

**marine transformer**

QPS marine transformer is safe and durable, which is produced for ships or vessels. The transformer is manufactured in compliance with independent Marine Vessel requirements to maximize safety. The transformer is naturally air-cooled mounted in IP rated metal enclosures. FAT by independent body could be arranged upon customer's request, at an extra cost.