

**QDTB® TRANSFORMER**

**SCBH15**

Amorphous Alloy Transformers

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PRODUCT DATASHEET

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# SCBH15 — Series Overview

The SC(B)H15 series combines cast resin dry-type technology with amorphous alloy core, delivering ultra-low losses with fire-safe, maintenance-free operation.

## Key Features

- Ultra-low no-load losses with amorphous alloy core
- Cast resin dry-type insulation
- Fire-retardant and self-extinguishing
- Maintenance-free indoor operation

## Typical Applications

- Indoor distribution
- Data centers
- Commercial buildings
- Fire-sensitive areas
- Green buildings

## Model Number Breakdown

S — Three-phase power transformer

C — Cast resin insulation, dry-type transformer

(B) — Foil-wound winding structure

H — Amorphous alloy core material, the core technology for ultra-low no-load loss

15 — Performance level designation, corresponds to specific low-loss energy efficiency standard

# Model Specifications

36 model(s) in the SCBH15 series. Weight and dimensions are typical reference values, subject to confirmation.

| Model           | Rated Capacity | HV Voltage | LV Voltage | Connection | Cooling | No-load Loss (W) | Load Loss (W) | No-load Current (%) | Impedance (%) | Insulation Class | Standard                 | Weight (kg) † | Dimensions (L×W×H) † | Oil Weight (kg) † |
|-----------------|----------------|------------|------------|------------|---------|------------------|---------------|---------------------|---------------|------------------|--------------------------|---------------|----------------------|-------------------|
| SC(B)H15-30/6   | 30             | 6 kV       | 0.4 kV     | Dyn11      | AN/AF   | 70               | 175           | 1.6                 | 4             | F(155°C)         | GB/T1094.11, IEC 60076-1 | 340 kg        | 870×600×850 mm       | 90 kg             |
| SC(B)H15-30/10  | 30             | 10 kV      | 0.4 kV     | Dyn11      | AN/AF   | 70               | 175           | 1.6                 | 4             | F(155°C)         | GB/T1094.11, IEC 60076-1 | 340 kg        | 870×600×850 mm       | 90 kg             |
| SC(B)H15-50/6   | 50             | 6 kV       | 0.4 kV     | Dyn11      | AN/AF   | 90               | 225           | 1.4                 | 4             | F(155°C)         | GB/T1094.11, IEC 60076-1 | 460 kg        | 900×620×900 mm       | 105 kg            |
| SC(B)H15-50/10  | 50             | 10 kV      | 0.4 kV     | Dyn11      | AN/AF   | 90               | 225           | 1.4                 | 4             | F(155°C)         | GB/T1094.11, IEC 60076-1 | 460 kg        | 900×620×900 mm       | 105 kg            |
| SC(B)H15-80/6   | 80             | 6 kV       | 0.4 kV     | Dyn11      | AN/AF   | 120              | 300           | 1.3                 | 4             | F(155°C)         | GB/T1094.11, IEC 60076-1 | 590 kg        | 1000×680×1000 mm     | 135 kg            |
| SC(B)H15-80/10  | 80             | 10 kV      | 0.4 kV     | Dyn11      | AN/AF   | 120              | 300           | 1.3                 | 4             | F(155°C)         | GB/T1094.11, IEC 60076-1 | 590 kg        | 1000×680×1000 mm     | 135 kg            |
| SC(B)H15-100/6  | 100            | 6 kV       | 0.4 kV     | Dyn11      | AN/AF   | 130              | 325           | 1.2                 | 4             | F(155°C)         | GB/T1094.11, IEC 60076-1 | 650 kg        | 1050×700×1080 mm     | 150 kg            |
| SC(B)H15-100/10 | 100            | 10 kV      | 0.4 kV     | Dyn11      | AN/AF   | 130              | 325           | 1.2                 | 4             | F(155°C)         | GB/T1094.11, IEC 60076-1 | 650 kg        | 1050×700×1080 mm     | 150 kg            |
| SC(B)H15-125/6  | 125            | 6 kV       | 0.4 kV     | Dyn11      | AN/AF   | 150              | 375           | 1.1                 | 4             | F(155°C)         | GB/T1094.11, IEC 60076-1 | 710 kg        | 1075×810×1170 mm     | 165 kg            |
| SC(B)H15-125/10 | 125            | 10 kV      | 0.4 kV     | Dyn11      | AN/AF   | 150              | 375           | 1.1                 | 4             | F(155°C)         | GB/T1094.11, IEC 60076-1 | 710 kg        | 1075×810×1170 mm     | 165 kg            |

| Model           | Rated Capacity | HV Voltage | LV Voltage | Connection | Cooling | No-load Loss (W) | Load Loss (W) | No-load Current (%) | Impedance (%) | Insulation Class | Standard                  | Weight (kg) † | Dimensions (L×W×H) † | Oil Weight (kg) † |
|-----------------|----------------|------------|------------|------------|---------|------------------|---------------|---------------------|---------------|------------------|---------------------------|---------------|----------------------|-------------------|
| SC(B)H15-160/6  | 160            | 6 kV       | 0.4 kV     | Dyn11      | AN/AF   | 170              | 425           | 1.1                 | 4             | F(155°C)         | GB/T1094.11, IEC 60076-11 | 800 kg        | 1110×970×1290 mm     | 190 kg            |
| SC(B)H15-160/10 | 160            | 10 kV      | 0.4 kV     | Dyn11      | AN/AF   | 170              | 425           | 1.1                 | 4             | F(155°C)         | GB/T1094.11, IEC 60076-11 | 800 kg        | 1110×970×1290 mm     | 190 kg            |
| SC(B)H15-200/6  | 200            | 6 kV       | 0.4 kV     | Dyn11      | AN/AF   | 200              | 500           | 1                   | 4             | F(155°C)         | GB/T1094.11, IEC 60076-11 | 900 kg        | 1150×990×1290 mm     | 205 kg            |
| SC(B)H15-200/10 | 200            | 10 kV      | 0.4 kV     | Dyn11      | AN/AF   | 200              | 500           | 1                   | 4             | F(155°C)         | GB/T1094.11, IEC 60076-11 | 900 kg        | 1150×990×1290 mm     | 205 kg            |
| SC(B)H15-250/6  | 250            | 6 kV       | 0.4 kV     | Dyn11      | AN/AF   | 230              | 575           | 1                   | 4             | F(155°C)         | GB/T1094.11, IEC 60076-11 | 1020 kg       | 1190×1030×1300 mm    | 240 kg            |
| SC(B)H15-250/10 | 250            | 10 kV      | 0.4 kV     | Dyn11      | AN/AF   | 230              | 575           | 1                   | 4             | F(155°C)         | GB/T1094.11, IEC 60076-11 | 1020 kg       | 1190×1030×1300 mm    | 240 kg            |
| SC(B)H15-315/6  | 315            | 6 kV       | 0.4 kV     | Dyn11      | AN/AF   | 280              | 700           | 0.9                 | 4             | F(155°C)         | GB/T1094.11, IEC 60076-11 | 1200 kg       | 1290×1120×1360 mm    | 280 kg            |
| SC(B)H15-315/10 | 315            | 10 kV      | 0.4 kV     | Dyn11      | AN/AF   | 280              | 700           | 0.9                 | 4             | F(155°C)         | GB/T1094.11, IEC 60076-11 | 1200 kg       | 1290×1120×1360 mm    | 280 kg            |
| SC(B)H15-400/6  | 400            | 6 kV       | 0.4 kV     | Dyn11      | AN/AF   | 310              | 775           | 0.8                 | 4             | F(155°C)         | GB/T1094.11, IEC 60076-11 | 1350 kg       | 1280×1110×1410 mm    | 320 kg            |
| SC(B)H15-400/10 | 400            | 10 kV      | 0.4 kV     | Dyn11      | AN/AF   | 310              | 775           | 0.8                 | 4             | F(155°C)         | GB/T1094.11, IEC 60076-11 | 1350 kg       | 1280×1110×1410 mm    | 320 kg            |
| SC(B)H15-500/6  | 500            | 6 kV       | 0.4 kV     | Dyn11      | AN/AF   | 360              | 900           | 0.8                 | 4             | F(155°C)         | GB/T1094.11, IEC 60076-11 | 1550 kg       | 1400×1210×1420 mm    | 360 kg            |

| Model            | Rated Capacity | HV Voltage | LV Voltage | Connection | Cooling | No-load Loss (W) | Load Loss (W) | No-load Current (%) | Impedance (%) | Insulation Class | Standard                  | Weight (kg) † | Dimensions (L×W×H) † | Oil Weight (kg) † |
|------------------|----------------|------------|------------|------------|---------|------------------|---------------|---------------------|---------------|------------------|---------------------------|---------------|----------------------|-------------------|
| SC(B)H15-500/10  | 500            | 10 kV      | 0.4 kV     | Dyn11      | AN/AF   | 360              | 900           | 0.8                 | 4             | F(155°C)         | GB/T1094.11, IEC 60076-11 | 1550 kg       | 1400×1210×1420 mm    | 360 kg            |
| SC(B)H15-630/6   | 630            | 6 kV       | 0.4 kV     | Dyn11      | AN/AF   | 420              | 1050          | 0.7                 | 4             | F(155°C)         | GB/T1094.11, IEC 60076-11 | 2200 kg       | 1490×1170×1250 mm    | 405 kg            |
| SC(B)H15-630/10  | 630            | 10 kV      | 0.4 kV     | Dyn11      | AN/AF   | 420              | 1050          | 0.7                 | 4             | F(155°C)         | GB/T1094.11, IEC 60076-11 | 2200 kg       | 1490×1170×1250 mm    | 405 kg            |
| SC(B)H15-800/6   | 800            | 6 kV       | 0.4 kV     | Dyn11      | AN/AF   | 480              | 1200          | 0.7                 | 6             | F(155°C)         | GB/T1094.11, IEC 60076-11 | 2550 kg       | 1580×1300×1400 mm    | 550 kg            |
| SC(B)H15-800/10  | 800            | 10 kV      | 0.4 kV     | Dyn11      | AN/AF   | 480              | 1200          | 0.7                 | 6             | F(155°C)         | GB/T1094.11, IEC 60076-11 | 2550 kg       | 1580×1300×1400 mm    | 550 kg            |
| SC(B)H15-1000/6  | 1000           | 6 kV       | 0.4 kV     | Dyn11      | AN/AF   | 550              | 1375          | 0.6                 | 6             | F(155°C)         | GB/T1094.11, IEC 60076-11 | 2800 kg       | 1600×1400×1450 mm    | 600 kg            |
| SC(B)H15-1000/10 | 1000           | 10 kV      | 0.4 kV     | Dyn11      | AN/AF   | 550              | 1375          | 0.6                 | 6             | F(155°C)         | GB/T1094.11, IEC 60076-11 | 2800 kg       | 1600×1400×1450 mm    | 600 kg            |
| SC(B)H15-1250/6  | 1250           | 6 kV       | 0.4 kV     | Dyn11      | AN/AF   | 650              | 1625          | 0.6                 | 6             | F(155°C)         | GB/T1094.11, IEC 60076-11 | 3200 kg       | 1680×1510×1480 mm    | 630 kg            |
| SC(B)H15-1250/10 | 1250           | 10 kV      | 0.4 kV     | Dyn11      | AN/AF   | 650              | 1625          | 0.6                 | 6             | F(155°C)         | GB/T1094.11, IEC 60076-11 | 3200 kg       | 1680×1510×1480 mm    | 630 kg            |
| SC(B)H15-1600/6  | 1600           | 6 kV       | 0.4 kV     | Dyn11      | AN/AF   | 760              | 1900          | 0.6                 | 6             | F(155°C)         | GB/T1094.11, IEC 60076-11 | 4030 kg       | 1750×1550×1540 mm    | 750 kg            |
| SC(B)H15-1600/10 | 1600           | 10 kV      | 0.4 kV     | Dyn11      | AN/AF   | 760              | 1900          | 0.6                 | 6             | F(155°C)         | GB/T1094.11, IEC 60076-11 | 4030 kg       | 1750×1550×1540 mm    | 750 kg            |

| Model            | Rated Capacity | HV Voltage | LV Voltage | Connection | Cooling | No-load Loss (W) | Load Loss (W) | No-load Current (%) | Impedance (%) | Insulation Class | Standard                  | Weight (kg) † | Dimensions (L×W×H) † | Oil Weight (kg) † |
|------------------|----------------|------------|------------|------------|---------|------------------|---------------|---------------------|---------------|------------------|---------------------------|---------------|----------------------|-------------------|
| SC(B)H15-2000/6  | 2000           | 6 kV       | 0.4 kV     | Dyn11      | AN/AF   | 1000             | 2500          | 0.5                 | 6             | F(155°C)         | GB/T1094.11, IEC 60076-11 | 5550 kg       | 1850×1600×1650 mm    | 1310 kg           |
| SC(B)H15-2000/10 | 2000           | 10 kV      | 0.4 kV     | Dyn11      | AN/AF   | 1000             | 2500          | 0.5                 | 6             | F(155°C)         | GB/T1094.11, IEC 60076-11 | 5550 kg       | 1850×1600×1650 mm    | 1310 kg           |
| SC(B)H15-2500/6  | 2500           | 6 kV       | 0.4 kV     | Dyn11      | AN/AF   | 1200             | 3000          | 0.5                 | 6             | F(155°C)         | GB/T1094.11, IEC 60076-11 | 6500 kg       | 1950×1700×1750 mm    | 1500 kg           |
| SC(B)H15-2500/10 | 2500           | 10 kV      | 0.4 kV     | Dyn11      | AN/AF   | 1200             | 3000          | 0.5                 | 6             | F(155°C)         | GB/T1094.11, IEC 60076-11 | 6500 kg       | 1950×1700×1750 mm    | 1500 kg           |

† Typical values, subject to confirmation. Final dimensions and weights are per factory GA drawings and routine test reports.

# Standards & Certification

ISO 9001 Certified — Quality Management System  
CE marking — available on selected models  
Design and testing per IEC 60076, IEC 60076-11 (dry-type), IEC 61330 (substations), GB 1094 and related international standards.

*Note: Certification details and test reports are provided upon request for the specific model and destination market.*

# Inquiry & Contact

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|----------|---------------------------------------------------------------------------------------------------------------|
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*QDTB® guarantees a response within 24 hours on business days. Send your model, capacity, voltage and quantity for a detailed quotation.*