

### The Ritherdon Power Supply Kiosk Range

consists of robust weather-proof external electrical enclosures designed to house the permanent power supply to a nearby property, or the temporary power supply to a nearby construction site. These two enclosures are named the PS (Permanent Supply) and the TBS (Temporary Building Supply) respectively. The PS and TBS ranges feature two separate compartments for the DNO and the end-user. The PS/TBS60 is designed to house electrical equipment up to (but not limited to) 60-70kV/100A, whereas the PS/TBS300 is designed for up to (but not limited to) 309kV/430A. The Power Supply Kiosk Range has been tested to BS EN 62208: 2011 and is CE certified in accordance with the Low Voltage Directive 2006/95/EC (2016).



Table 1 - Product Range table showing dimensions and weight of each model

Figure 1 – Dark Green PS300 Cabinet

| Model  | External Dimensions |          |          | Compartment (x2) |           | Backboard (x2) |          | Weight (+ Plinth) kg |
|--------|---------------------|----------|----------|------------------|-----------|----------------|----------|----------------------|
|        | Height mm           | Width mm | Depth mm | Height mm        | Length mm | Height mm      | Width mm |                      |
| TBS300 | 2292                | 1600     | 800      | 2025             | 797       | 1770           | 702      | 350 (+ 20)           |
| PS300  | 2292                | 1600     | 800      | 2025             | 797       | 1770           | 702      | 350 (+ 20)           |
| TBS60  | 1265                | 1250     | 430      | 1125             | 622       | 650            | 450      | 85 (+ 12)            |
| PS60   | 1265                | 1250     | 430      | 1125             | 622       | 650            | 450      | 85 (+ 12)            |

Standard colours for PS models include Black, Dark Grey, Light Grey and Dark Green, and a natural finish is also available for the PS60 in 304 and 316 grades of steel. All models can be made in 4003, 304 and 316 Grade 2mm Stainless Steel. TBS models are supplied **only in Red** to denote temporary status. PS/TBS 300 Models always sold with the corresponding plinth.

### Features and Accessories

- **IP24 Rating** – Models with ventilation louvres are protected against +12.5 mm solid objects and water splashing according to BS EN 60529:1992 + A2:2013.
- **IP46 Rating** – Models without ventilation louvres are protected against +1 mm solid objects and powerful water jets according to BS EN 60529:1992 + A2:2013.
- **IK10 Rating** – Can withstand impact energy 20J according to IEC 62262.
- **Secure Locking System** – PS/TBS60 uses three-point locking with two tri-key camlocks and one central hasp and staple with padlock shroud. PS/TBS300 uses multi-point locking system protected by padlock shroud.
- **Plywood Backboard** – 2 x 12 mm backboards in each unit for mounting electrical equipment
- **Lifting Lugs** – All models supplied with detachable lifting lugs.
- **Earthing of Door** – A length of wire provides earth bonding of the door to the body increasing safety
- **Peaked Roof** - 30° peaked roof on a 2° slope down away from the door.
- **Prewiring Service** – We are able to supply and assemble any internal electrical equipment that may be required.

### **Testing**

The Ritherdon Power Supply Kiosk Range is covered by testing performed according to the criteria specified in BS EN 62208: 2011 “Empty Enclosures for Low-Voltage Switchgear and Controlgear Assemblies – General Requirements”. IP testing and all other tests were performed by Ritherdon.

#### **Ingress Protection (IP) Testing**

- IP Testing was initially performed on models with ventilation louvres in accordance with BS EN 60529:1992+A2:2013 to obtain a rating of IP24
- Further IP testing was carried out by Ritherdon on models without ventilation louvres using methods specified in BS EN 60529:1992+A2:2013 achieving a rating of IP46

#### **Protection against external mechanical impacts (IK code)**

- Done in conformity with IEC 62208 clause 9.7 and IEC 62262 achieving the highest rating IK10
- Three impacts applied on each exposed surface using a test hammer as described in IEC 60068-2-75 suitable for the dimensions of the enclosure
- Continued to provide IP code after test



*Figure 2 – TBS60 with closed doors*

#### **Resistance to Corrosion**

- Done in conformity with IEC 62208 clause 9.13.2.1 & 2, severity tests A and B.
- Tests corrosion resistance using damp heat cycling and salt mist cycling (IEC 60068-2-30 & 11)
- No presence of rust, enclosure retained mechanical integrity, seals not damaged and doors, hinges and locks continued to function without abnormal effect

#### **Static Load Testing**

- Done in conformity with IEC 62208 clause 9.4
- Ensures enclosure can support maximum permissible load

#### **Axial Load Testing**

- Done in conformity with IEC 62208 clause 9.6
- Ensures metal inserts can support the required load

#### **Thermal Power Dissipation Capability**

- Done in conformity with IEC 62208 clause 9.14
- Determined using method according to IEC/TR 60890



*Figure 3 - PS60 with both doors open revealing door/body earthing*

***Please contact our technical team if you require a more detailed report of the testing or if you have any other questions and would like to discuss any aspect of this data sheet.***