



TRIPPING BATTERY UNITS - DST SERIES



- ★ NICKEL CADMIUM BATTERY
- ★ HIGH PERFORMANCE
- ★ LOW MAINTENANCE
- ★ HIGH QUALITY
- ★ CE MARKED

The DST range of tripping battery units provide a DC supply in electrical substations and switch rooms for the tripping and closing of circuit breakers.

They also find applications in other standby situations where an occasional high current load needs to be supplied for a relatively short time.

The units are highly reliable and utilise maintenance-free nickel cadmium batteries which give high discharge currents, long life, and freedom from the plate corrosion failures associated with some other battery types. The batteries are tolerant of accidental over-discharge without damage.

These units are quick and easy to install because they are delivered with the batteries already fitted and connected. Only mains and output connections need to be made. Batteries are shipped discharged for safety in transport and handling but tripping loads can be drawn from the battery within one hour of energisation.

All models are suitable for supplying intermittent tripping or closing loads within the peak current ratings quoted. Some models are able to supply a continuous load in addition to the tripping load.

All units are fitted with a charge fail alarm relay as standard. A set of volt-free changeover contacts is available for connection to a remote monitoring system. Additional alarms may be fitted to the continuous load models as extra cost options. High Voltage, Low Voltage and DC Earth Fault functions are available.

A test facility is provided by means of a voltmeter and dummy load so that the condition of the batteries can be periodically monitored.



These units are manufactured to a high standard in our UK factory under an ISO9001:2000 quality management system. All internal wiring is fitted with numbered ferrules for easy identification against the wiring diagram supplied.

| Model Reference | DC Voltage | Peak Current (tripping) | Continuous Load | Battery Capacity | Dimensions (mm) | | |
|-----------------|------------|-------------------------|-----------------|------------------|-----------------|-----|-----|
| | | | | | H | W | D |
| DST30/2 | 30 V | 30 A | - | 2.2 Ah | 500 | 300 | 200 |
| DST30/2/2 | 30 V | 30 A | 2 A | 2.2 Ah | 600 | 400 | 200 |
| DST30/4 | 30 V | 50 A | - | 4.5 Ah | 500 | 300 | 200 |
| DST30/4/2 | 30 V | 50 A | 2 A | 4.5 Ah | 600 | 400 | 200 |
| DST30/7 | 30 V | 65 A | - | 8 Ah | 500 | 300 | 200 |
| DST30/7/2 | 30 V | 65 A | 2 A | 8 Ah | 600 | 400 | 200 |
| DST50/2 | 50 V | 30 A | - | 2.2 Ah | 600 | 600 | 200 |
| DST50/2/1 | 50 V | 30 A | 1 A | 2.2 Ah | 600 | 600 | 200 |
| DST50/4 | 50 V | 50 A | - | 4.5 Ah | 600 | 600 | 200 |
| DST50/4/1 | 50 V | 50 A | 1 A | 4.5 Ah | 600 | 600 | 200 |
| DST50/7 | 50 V | 65 A | - | 8 Ah | 600 | 600 | 200 |
| DST50/7/1 | 50 V | 65 A | 1 A | 8 Ah | 600 | 600 | 200 |
| DST110/2 | 110 V | 30 A | - | 2.2 Ah | 600 | 600 | 200 |
| DST110/2/0.5 | 110 V | 30 A | 0.5 A | 2.2 Ah | 800 | 600 | 250 |
| DST110/4 | 110 V | 50 A | - | 4.5 Ah | 600 | 600 | 200 |
| DST110/4/0.5 | 110 V | 50 A | 0.5 A | 4.5 Ah | 800 | 600 | 250 |
| DST110/7 | 110 V | 65 A | - | 8 Ah | 600 | 600 | 200 |
| DST110/7/0.5 | 110 V | 65 A | 0.5 A | 4.5 Ah | 800 | 600 | 250 |

All dimensions given above are approximate nominal sizes.

Battery capacities are quoted at the 5 hour rate to 1.1 Volts per cell.

A removable undrilled cable entry gland plate is fitted to the bottom on all units.

Specification

| | |
|---------------|---|
| Enclosure | Robust sheet steel, wall mounting type. Hinged and lockable front access door. Degree of protection to IP31. Painted Light Grey RAL7035. |
| AC Supply | 230/240 V nominal (207-264 V) 50/60 Hz. * |
| Battery | Maintenance-free, sealed, sintered plate Nickel Cadmium battery to EN60285. |
| Charger | Transistor controlled constant current type. |
| Indication | Mains Supply On Charging (gives a positive indication of current charging the battery) |
| Recharge Time | 24 hours from fully discharged. |
| Duty | At the maximum trip currents stated in the table, with the mains supply failed, at least 300 operations of 300 milliseconds duration will be possible, without the output voltage falling below 85% of nominal. |
| Test Facility | A pushbutton is provided for battery condition monitoring. A dummy load is placed across the battery and the voltage is displayed on the front panel voltmeter. |
| Alarms | Volt-free changeover contacts are provided as standard to indicate charger failure. These operate if the charge current should fall below 75% of nominal. |
| Output Fusing | The tripping output is unfused in accordance with common practice. Continuous load models have a double pole fused output (2A) in addition to the tripping output, although it is possible to draw the continuous load from the tripping output if preferred. Additional fuse or circuit breaker protected outputs can be provided at extra cost. |

* Please note that due to the importance of maintaining the tripping output, an on/off switch is not provided as standard with these units. An appropriate means of isolating the AC supply external to the enclosure will be needed for compliance with BS7671 (IEE Regulations)

In accordance with our policy of continuous product improvement, we reserve the right to change product specifications without prior notice.

For further information on these or other battery units, please contact:



enquiries@hsups.co.uk • +44 1908 565656 • harlandsimonups.com
Harland Simon UPS Ltd • Bond Avenue • Bletchley • MK1 1TJ