



Valve Regulated Lead Acid (VRLA) & Sealed Lead Acid (SLA) Battery Switch Tripping Unit

FAST Technologies battery chargers for switchgear tripping and closing have been developed in partnership with industry leaders.

Designed to provide a continuous DC supply for operating switchgear and protection equipment, FSTU series units are supplied with status indicators, test points and alarms. The robust, reliable units, with remote monitoring as an option are very simple to install and competitively priced.

One of the most critical components of a switch tripping unit is the battery technology used. FAST Technologies have integrated Valve Regulated Lead Acid cells, due to their inherent reliability offering up to 10+ years of service life.

The advantage of VRLA/SLA Batteries:

- VRLA & SLA cells use a mature, reliable and well-understood technology - they are durable and provide dependable service.
- Low-self-discharge - the self-discharge rate is among the lowest in rechargeable battery systems.
- Low maintenance requirements - no memory; no electrolyte to fill.
- Capable of high discharge rates.



Advantages of a FAST Technologies Battery Tripping units:

- Vented NiCd or Sealed NiCd battery options
- 24V, 30V, 50V and 110V models available
- Standing and non-standing load versions
- High Ambient Temperature versions available up to 70DegC
- Standard range IP42 - Various IP ratings available
- We can build Back plate only or into your own Enclosures
- Small compact design
- Competitive pricing
- Redundancy options for Dual systems
- Proven reliable design
- Design change flexibility
- CE Marked
- All units undergo extensive testing including Thermographic surveys before leaving the factory.
- FAST lead times
- Standard 1 year Warranty
- FAST Customer Support

Designed and manufactured in compliance with the relevant British and International standards, FAST Technologies offer a full range of wall mounting and floor standing self-contained units suitable for switch tripping, switch closing and motor rewinding.

The standard range covers voltages from 24V to 30V and 48V to 110V DC output.

DC SYSTEMS



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Standard Specification

Input Voltage

230 volts, 50Hz, single phase and three phase systems available (other voltages on request)

Output Voltage

Standard nominal system voltages of 24,30,50 or 110 (other voltages on request).

Charger

Fully automated, maintenance free. Solid state constant voltage (VRLA types) with current limit. Inherently protected against low battery voltage, reversed battery connection and short circuit conditions.

Charger Output Regulation (Ripple)

Float voltage controlled to within +/- 1% irrespective of AC mains supply variations of +/- 6% and charger output current variation from 0 to 100%. Ripple voltage is limited to a maximum of 2%rms of the system DC nominal voltage.

Recharge Time

Chargers rated to provide 80% recharge within 8 hours and full charge in under 14 hours following a full rated discharge. Faster customised charging schemes available on request.

Instrumentation

Voltmeter, Load and Charger Ammeters available - 72mm DIN types to BS89 class 1.5.

Monitoring, Control & Displays Options

- Mains On
- Charger Healthy
- Mains Fail
- Charger Fail
- Low Volts
- High Volts
- Surge Protection
- Earth Fault +/-
- Circuit Breaker Fault
- Remote Alarm Facility
- MCB or Fuse Protection
- Temperatures Compensation Controls
- RFI Filter
- Other Battery Types Available (SLA, VRLA, VENTED-NiCd)
- Battery Boost (Manual/Automatic)
- Integrated Control & Alarms PCB's

Our VRLA DC chargers provide uninterrupted DC power for switch tripping and closing in electrical substations. These easily installed DC Switch trippers utilising FAST Designs well proven constant voltage battery charging technology, wide choice of batteries and integrated PCB modules which offers the perfect solution for any application where proven reliability and footprint is essential.

Fast Technology have a dedicated team who can help from initial spec to completion of custom designed BTU's and to help with any inquiries, questions or site issues. From initial contact to aftercare, Fast Technologies offer a wide range of customised DC Solutions. Systems are tailor made to ensure the customer scope is fully covered with short lead times and cost effective solutions available.

Battery Tripping units can be tripping only or for continuous load applications consisting of VRLA cells complete with a suitable charging, monitoring and alarm facility. Our range of PCB's ensure the units will have the facility to recharge the battery cells at the optimal charging rate without the need for battery Boost or Float.

Battery Chargers are rated to supply the required standing load on the system plus an allowance as recommended by the battery supplier to provide a suitable charge rate for all conditions.

Battery Suppliers

