

PES™

BATTERY TRIPPING UNITS

BTU™

BY PES

Absolute Protection.

Built to protect your assets.

Battery tripping units, designed and manufactured in Leeds. Fast, intelligent DC support for live networks.

Available in 24V, 30V, 50V and 110V, up to 200Ah — each unit configured to the exact requirements of the site.

Advanced hardware with integrated control. A compact, clean enclosure, laid out around simplicity, access and thermal performance.

Connectivity as standard — remote-ready, easily testable and designed to operate seamlessly in demanding environments.

24-110V DC OUTPUT	200Ah CAPACITY, TO	>86% 24-30V >94% 50-110V EFFICIENCY	IP65 ENCLOSURE
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12-month guarantee.

Every battery tripping unit is covered for 12 months from dispatch. Extended warranties are available where required.

| This product makes us phenomenally proud.

PROVENANCE

Designed and made in Leeds.

Every unit is built, configured and tested at our
works in Leeds — one team, one standard, start
to finish.



Expertly designed. Reliably built.

Intelligent charging

A four-stage charging profile with automatic boost mode. No external intervention required.

Battery health, monitored

Built-in health checks support long-term performance. PT1000 temperature compensation comes as standard.

Clear at a glance

A backlit LCD module shows multiple parameters simultaneously, complete with alarm indication.

Protected throughout

Comprehensive protection with auto-recovery, automatic self-testing and power de-rating at high ambient temperatures.

Sealed for site

A rugged IP65-rated enclosure, built for demanding site environments.

Tested before dispatch

Every unit undergoes a full discharge and recharge test, with both profiles recorded — batteries and charging system verified before deployment.

SPECIFICATION

Considered in full.

Efficiency, 24–30V units	>86%
Efficiency, 50–110V units	>94%
Nominal input, 24–30V units	90–305V (L–N)
Nominal input, 50–110V units	184–264V (L–N)
Input frequency	45–65Hz
Charger operating temperature	–25°C to +80°C
Optimum battery temperature	20°C to 25°C
Ripple and noise	<3% Vo
Line regulation	<0.5%
Load regulation	Line <1% · Load <4% Vo
Accuracy	<±1.5% interface

Response to load change	<1ms, 10–100% / 100–10%
Start-up from shutdown	Typ. 420ms
Start-up from inhibit	Typ. 420ms
Soft start	Typ. 100ms
Hold-up time	≥20ms at 230V AC
Inrush current	<14.7A eff · <20.7A peak, active limiter
Short-circuit protection	Continuous
Open-circuit proof	Continuous
Temperature control	Thermal shutdown, auto recovery (+70°C)
Cooling	Convection
Alarm contact rating	2A DC resistive

Configured to the site.

24V Up to 4A standing load	30V Up to 9A standing load	50V Up to 9A standing load	110V Up to 9A standing load
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Protection, as standard.

Short circuit

DC over-voltage

DC over-current

Reverse polarity, with auto-recovery

Over-temperature

AC over & under voltage

+ve earthed indication — if
specified

-ve earthed indication — if
specified

Options.

Volt-free mains-failure contacts.

Remote monitoring via GSM auto-dialler, supporting up to five
contact numbers.

Extended warranty beyond the standard 12 months, where required.

Held in stock.

Ready when needed.

Tripping intelligence.



The moment
that matters.

ENQUIRIES

Powering partnerships.

Our dedicated team is on hand to advise on hire and purchase options, as well as any site-specific requirements.

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