

Technical data

P4205 Self contained wall-mounted
(Switch Tripping) unit

30 volt battery pack and float charger
Type B (Standing load with alarms)

10.0Ah supply for powering coils, protection relays etc.

Trauma tested to ensure safe power under extreme conditions

Battery
Charger
Alarms
Casing, etc
Standards and testing

Battery pack 2No. P4291

Sealed
Lead-Acid

Type

30 volt

Nominal voltage

2 x 15

Number of cells (two packs wired in parallel)
Taped and shrink-wrapped

10Ah

Rated capacity (2 x 5Ah)

28 volt

Minimum discharge voltage at battery terminals
whilst supplying standing load (5° C)

28 volt

Minimum discharge voltage at battery terminals
whilst supplying standing load and undertaking
tripping/inter-tripping duty (5° C)

Wound Lead
(pasted)

Construction of negative and positive plates

10 years

Design float life at 25° C

Cyclon 'X'

Manufacturer's cell type

1.8 amps

Float charge rate

35.7±0.3V

Float voltage

Charger

Input

110/240V	Voltage
Single	Phase
50Hz/60Hz	Frequency

Output

Two	Number of outputs
32A Redspot	Value & type
1A @35.7V	Rated float current at float voltage
35.1-36.3V 35.7V	Float voltage adjustment range Nominal setting
0.7A-2.0A 1.8A	Float current adjustment range Nominal setting
Better than .05% for +6% to -10%	Output voltage regulation for mains voltage variation
6 hours	Recharge time after full discharge

Alarms

2 (normally open) relay contacts available for each alarm circuit

Charger fail

25-34V	Adjustment range
30V	Nominal setting

1-10 sec	Time delay adjustment range
5 sec	Nominal setting

Battery volts low

23-30V	Adjustment range
26V	Nominal setting

35msec	Time delay setting
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Battery volts high

34-41V	Adjustment range
37.5V	Nominal setting

1-10 sec	Time delay adjustment range
5 sec	Nominal setting

Charger isolated	Additional safety action on alarm
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Visual warnings (see Front panel)

Green LED	Healthy system indicator
Red LED	Mains power supply on

Casing

Dimensions (approx)

500mm	High
500mm	Wide
300mm	Deep with bolt positions for fixing to wall
11.2KG	Battery pack
28.0KG	Unit not including battery

Front panel

Switch for main supply On/Off

Spring loaded test switch that inserts 5 amp load resistance

Voltmeter with range 0-40 volts

5 amp fuse for mains input

7 amp fuse for protecting transformer secondary wiring

1 amp fuse for protection of alarm panel under fault conditions

7 amp fuse for protection of control and load test circuitry

Healthy system indicator LED (green)

Mains power supply on LED (red)

Cabling

Spring loaded DIN connectors for all external wiring through removable gland plate (see drawing 420519)

Standards and testing

Batteries to BS 6290

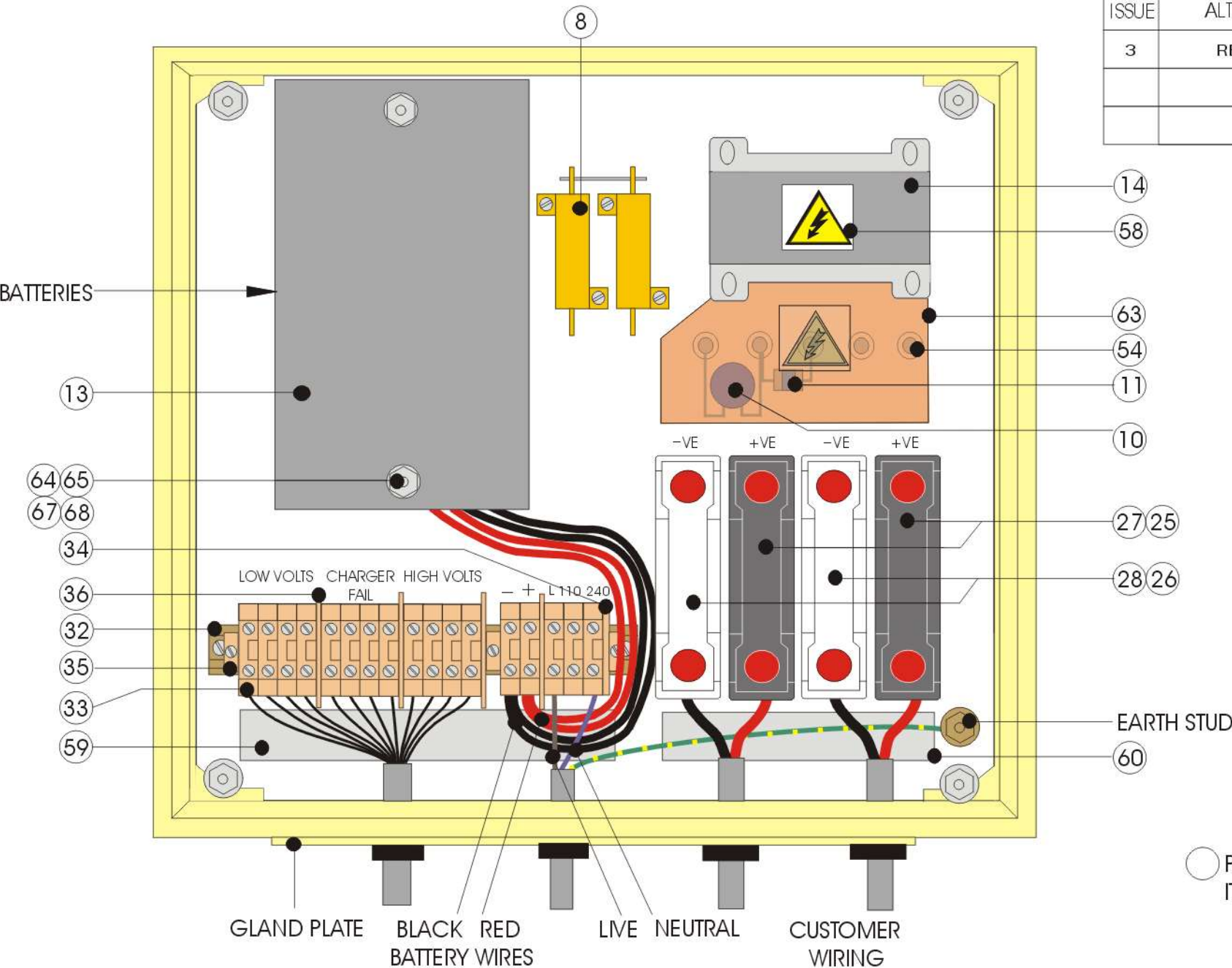
Unit designed to ESI standard 50-18

Complies with Engineering Standard 3-0301 (Switchgear)

Fully tested

Enclosure complies with IP31 for indoor mounting

ISSUE	ALTERATION	BY	DATE
3	REDRAWN	DAF	29/3/00



○ PARTS LIST
ITEM NUMBER

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