

# Technical data

P4215 Self contained wall-mounted  
(Switch Tripping) unit

48 volt battery pack and float charger  
(Standing load type 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. P4293

Sealed Lead-Acid	Type
48 volt	Nominal voltage
2 x 24	Number of cells (two packs wired in parallel) Taped and shrink-wrapped
10A/h	Rated capacity (2 x 5A/h)
45 volt	Minimum discharge voltage at battery terminals whilst supplying standing load (5° C)
45 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 ambient
Cyclon	Manufacturer's cell type
1.8 amps	Float charge rate nominal
57.12±0.48V	Float voltage

# Charger

## Input

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

## Output

Two	Number of outputs
32A Redspot	Value & Type
1A @57.12V	Rated float current at float voltage
51.4-57.82V 57.12	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

## **Charger fail**

40-54.4V	Adjustment range
48V	Nominal setting

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

## **Battery volts low**

37-48V	Adjustment range
42V	Nominal setting

35 msec	Time delay setting
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## **Battery volts high**

55-65V	Adjustment range
60V	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
18KG	Complete battery pack
28KG	Unit not including battery (as packed)

## Front panel

Switch for main supply On/Off

Spring loaded test switch that inserts 5 amp load

Voltmeter with range 0-40 volts

5 amp fuse for mains charger input

7 amp fuse for protection of transformer

1 amp fuse for protection of alarm panel under fault conditions

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 421519)

# Standards and testing

Batteries to BS 6290

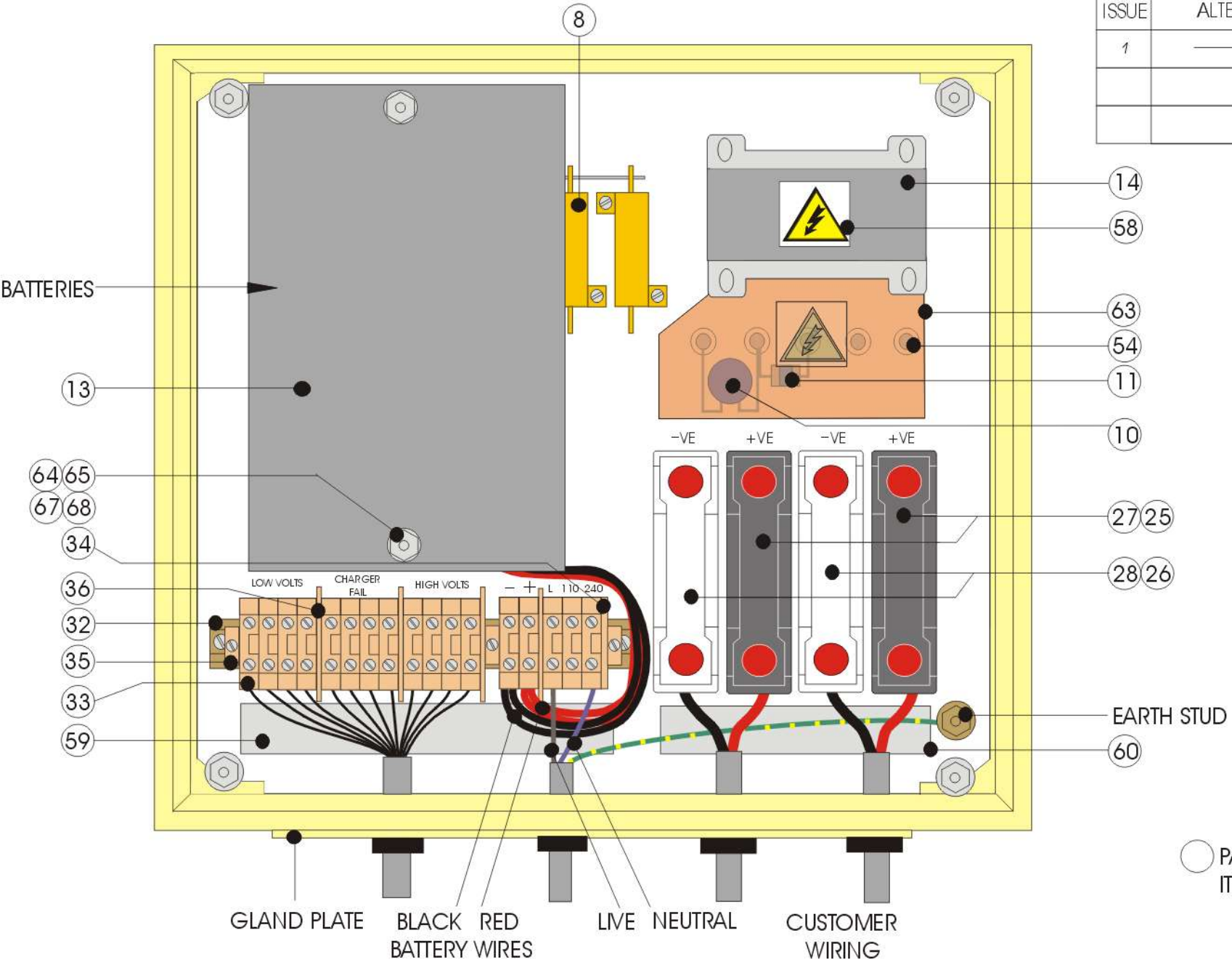
Unit designed to ESI standard 50-18

Complies with Engineering Standard 3-0301 (Switchgear)

Fully tested

Enclosure complies with IP31 for indoor mounting

ISSUE	ALTERATION	BY	DATE
1	—————	DAF	20/02/01



○ PARTS LIST  
ITEM NUMBER

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**SLENCREST LIMITED**  
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**TITLE**  
GA INSIDE UNIT SHOWING CUSTOMER WIRING MODEL 4215

SCALE :-  
DIMENSIONS :-

TOLERANCES :-

DRAWING No.  
**421519**  
DRN. DAF ENGR SSM