

# 9-30842

## EN 54-4 approved, 24 V 5 A + 1.6 A Intelligent Power Supply

### The Product

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The 9-30842 is a fully featured EN54-4 approved power supply ideal for use in fire system applications. It features intelligent battery charging, monitoring and signaling. Regulated 24 VDC output will source up to 5 A into the load as well as providing up to 1.6 A for charging the standby batteries.

The load output features full electronic short circuit protection under both mains and standby battery operation. Maximum battery life is assured through continuous active battery monitoring and 3 different charge levels: bulk (fast charge), absorption and temperature compensated float. Deep discharge protection prevents premature battery failure when operating from standby for extended periods.

Inside the unit, a diagnostic led with various flash patterns, ensure accurate diagnostics when the unit is in fault.

### Installer friendly

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A 9-30842 power supply is supplied in a self-contained, wall mounting box that can also house 17 Ah batteries (not included). The battery charging circuit is energised only when a battery is correctly connected and the battery voltage is greater than 14 V.

A green and a red LED that is visible when the box is closed, indicates mains present and faults. A red diagnostics LED inside the unit, distinguish between various faults by way of various flash patterns.

A potential-free contact is used to signal faults due to output failure, battery fault, charger fault or internal fault. A second potential-free contact signals the loss of mains power.

The unit start-up automatically under battery i.e. connect battery and unit runs. There is no need for mains to be present and is very useful for commissioning on new build installations.



### Details

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- Approved to EN54-4 & VdS certified
- Self contained box houses 17 Ah batteries
- Optional battery box houses 38 Ah batteries
- Electronic overload protection
- Deep discharge protection
- Mains & Fault LED indicators
- Fault diagnostics LED, inside of the unit
- 2 x Relay outputs: Fault & Mains Fault
- Temperature compensated charging
- Wide input voltage range
- Start-up from batteries

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### Technical specifications

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#### Input

|                 |  |
|-----------------|--|
| Rated range     | 100 - 230 VAC, 50Hz - 60Hz                         |
| Operating range | 93VAC to 264 VAC, 45Hz - 65Hz                      |
| Current         | 2.5 A maximum for full 5 A load and 1.6 A charging |

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#### Output

|              |  |
|--------------|--|
| Voltage      | 26 - 28 VDC with mains<br>18 - 26 VDC on standby |
| Load Current | 0 - 5 A  |
| Ripple       | 100 mV max                                       |
| Overload     | Electronic shutdown at 8 A                       |

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#### Physical

|                     |                               |
|---------------------|-------------------------------|
| Physical dimensions | 400 x 420 x 80 mm (W x H x D) |
| Net weight          | 6.2 kg                        |

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#### Environmental

|                       |                        |
|-----------------------|------------------------|
| Operating temperature | -10 to +40°C           |
| Storage temperature   | -20 to +80°C           |
| Relative humidity     | 95% max. noncondensing |
| Environment           | Indoor                 |
| IP rating             | IP30                   |

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#### Standards & regulation

|               |         |
|---------------|---------|
| Certification | EN54-20 |
|---------------|---------|

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#### Standby battery

|                                  |  |
|----------------------------------|--|
| Battery capacity (in housing)    | 2 x 17Ah series connected  |
| Battery capacity (with PM700BAT) | 2 x 38Ah series connected  |
| Battery charging                 | Constant current 1.6 A charge to 80% in 24H<br>Float charging to 100% in 48H |
| Deep discharge protection        | Battery disconnect at 21 V   |
| Low battery threshold            | 23 V nominal   |

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#### Local indicators

|                          |                                      |
|--------------------------|--------------------------------------|
| On the front of the unit | Green LED - power<br>Red LED - fault |
| Inside the unit          | Red LED - fault diagnostics          |

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#### Signalling output

|                   |                              |
|-------------------|------------------------------|
| Fault relay       | 100 mA @ 60 VDC N/C contacts |
| Mains fault relay | 100 mA @ 60 VDC N/C contacts |

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#### Mechanical

|             |  |
|-------------|--|
| Size        | 400 x 420 x 80 mm                                  |
| Weight      | 6.2 kg (excluding batteries)                       |
| Temperature | -10 to +40°C (operating)<br>-20 to +80°C (storage) |
| Humidity    | 95% RH non-condensing                              |
| IP Rating   | IP 30  |

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[sales@norrscope.com](mailto:sales@norrscope.com)

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