

# 1225VIP

Power supply unit 12v 2.5A

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## Key Features include:

- Power supply for 12v DC systems
- Space for 1 x 18Ah batteries
- Capable of parallel connection for increased capacity & reliability
- Short circuit & overload protection
- Mains failure detection
- Monitors for three different battery faults
- LED confirmation of fuse failures
- Deep discharge protection for the batteries
- Tamper contacts for lid and removal
- Internal & automatic battery testing function

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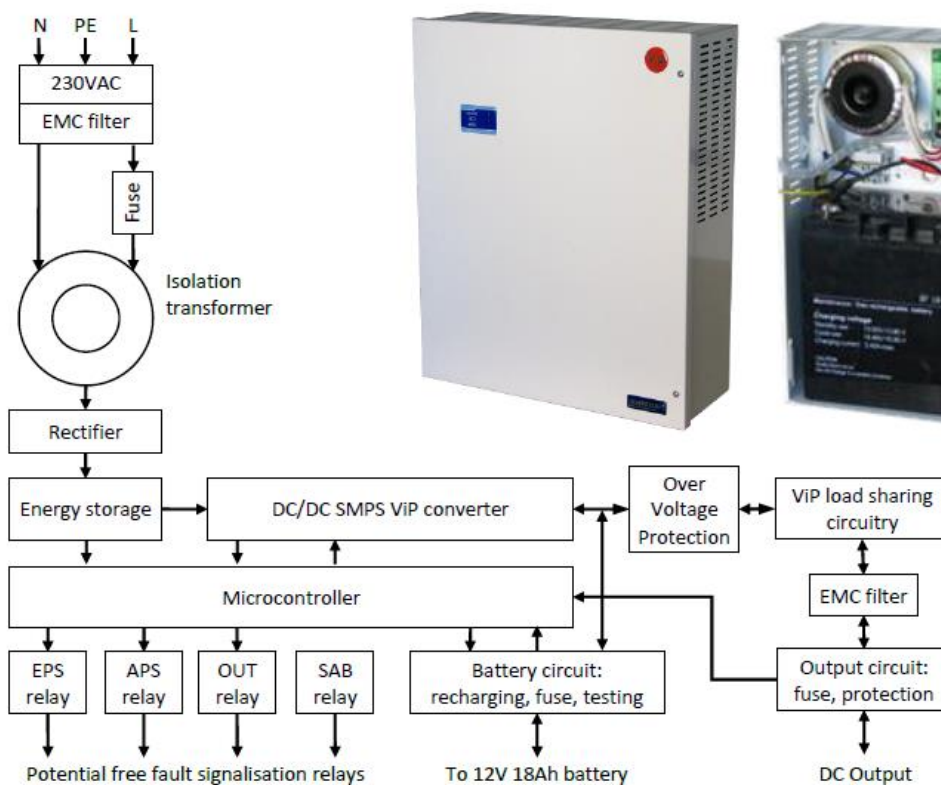
## Description

The 1225VIP PSU is an up-to date power supply unit with battery backup compliant with EN standards. Unit provides all features required by EN 50131-6:2008, security grade 3.

A distinctive and unique feature of 1225VIP PSU is the ViP mode – Voltage-in-Parallel. Power supply units with ViP feature can be connected in parallel both (+) and (-) on one common power bus without a need of additional synchronisation. Connected units, of the same operating voltage, will share load on a bus system. The ViP feature can be used to build distributed and redundant power systems. The ViP feature can also be used to compensate voltage drops on a bus by placing power supply units in distant locations, connected via the bus.

Power conversion is based on high frequency SMPS regulator providing high conversion efficiency. Low losses inside unit prevent batteries from overheating and shortening the battery life time. The computerised battery recharging circuit, works in constant potential, limited current mode, which is the best mode to provide the longest possible battery life time. The 1225VIP PSU is equipped with a built-in diagnostic system detecting and signalling mains failure, different battery failures including end-of-life warning and output faults such as low voltage or fuse failure.

## BLOCK DIAGRAM



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## ■ Technical Specifications

<b>Voltage</b>	
- Input	230V AC, +10/-15%, 0.2A max load, 50Hz
- Output	13.8V DC
- Min output in battery mode	10V DC
- Max output ripple	<5% of nominal output voltage
<b>Current consumption (at 12V DC)</b>	
- Total maximum output	2.5A
<b>Battery Information</b>	
- Capacity	1 x 12V 18.0Ah sealed lead acid
- Recharge time	58 hours to 80% capacity
<b>Protection &amp; Monitoring</b>	
- Battery low	Triggers at 11V DC
- Battery deep discharge protection	Triggers at 10V DC
- Voltage fault, output signal	Triggers at 9V DC
<b>Indications – Internal</b>	
- Red LED	Loss of mains voltage
- Red LED	Battery fault
- Red LED	Output voltage failure
- Yellow LED	Battery recharging enabled
- Green LED	Input voltage OK
- Green LED	Output voltage OK
<b>Indications – External</b>	
- Green LED	Unit healthy
- Yellow LED	Mains voltage failure
- Red & Green LEDs	Battery or output failure
- Red & Yellow LEDs	Mains missing & battery or output fault
<b>Ambient conditions</b>	
- Operating temperature	+5... +40 °C
- Humidity (EN60721)	≤ 90% RH, non-condensing
- Housing protection (EN60529)	IP41
- Environmental class	Class I, EN50130-5:1998
<b>Weight</b>	Approximately 7.2 Kg with 1 x 12v 18.0 Ah battery (not supplied)
<b>Enclosure</b>	
- Dimensions (W x H x D)	250 x 330 x 100mm
- Material/Colour	Steel/White
- Tamper/protection	Opening & removal

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## ■ Accessory

Type	Art.-No.	Description	Weight
AB1215.0	N54545-Z124-A100	Battery, 12V 15.0 Ah	5.9 Kg

## ■ Ordering information

Type	Art.-No.	Description	Weight
2415VIP	N54545-Z115-A100	1225VIP PSU 12V/2.5A	1.7 Kg

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