Power supply unit 24v 1.5A





Key Features include:

- Power supply for 24v DC systems
- Space for 2 x 7Ah batteries, which can provide 0.125A for 30 hours standby
- Capable of parallel connection for increased capacity & reliability
- Short circuit & overload potection
- Mains failure detection
- Monitors for three different battery faults
- LED confirmation of fuse failures
- Deep discharge protection for the batteries
- Tamper contats for lid and removal
- Internal & automatic battery testing function

Power supply unit 24v 1.5A



Description

The 2415VIP 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 2415VIP 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 2415VIP 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.

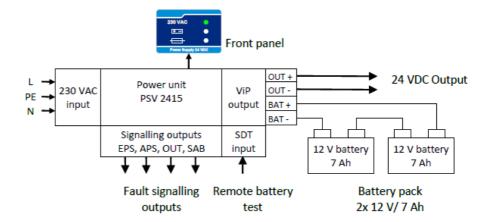
Block Diagram

EPS – External Power Supply (mains)

APS – Alternative Power Source (battery)
OUT - Output voltage

SAB - Sabotage

SDT - Storage Device (battery) Test





Power supply unit 24v 1.5A



■ Technical Specifications

Voltage - Input	230V AC, 0.35A max load, 50Hz		
- Output	27.6V DC		
- Min output in battery mode	20V DC		
- Max output ripple	<50mV peak to peak		
Current consumption (at 24V DC)			
- Grade 2	0.125A for 30 hours using 2 x 7Ah batteries		
- Grade 3	0.4A for 12 hours using 2 x 7Ah batteries		
- Total maximum output - Battery recharge	1.25A 0.25A		
	0.23A		
Battery Information	2 v 12) / 7 0 Ah applied load asid compacted in parise		
- Capacity - Recharge time	2 x 12V 7.0Ah sealed lead acid, connected in series 24 hours to 80% capacity		
- Necharge time	24 Hours to 60 % capacity		
Protection & Monitoring			
- Over voltage	Triggers at 34.5V DC		
- Battery low	Triggers at 22V DC		
Battery deep discharge protectionVoltage fault, output signal	Triggers at 19V DC Triggers at 18V DC		
- Voltage rault, output signal	riiggeis at 10v DC		
Indications – Internal			
- Red LED	Loss of mains voltage		
- Red LED	Battery fault		
- Red LED - Yellow LED	Output voltage failure Battery recharging enabled		
Indications – External	battery recharging enabled		
- Green LED	Unit healthy		
- Yellow LED	Mains voltage failure		
- Red LED	Battery or output failure		
Ambient conditions			
- Operating temperature	-10 +55 °C		
- Humidity (EN60721)	≤ 90% RH, non-condensing		
- Housing protection (EN60529) - Environmental class	IP41		
	Class II, EN50130-5:1998		
Weight	Approximately 6.4 Kg with 2 x 12v 7.0Ah batteries (not supplied)		
Enclosure			
- Dimensions (W x H x D)	325 x 275 x 90mm		
- Material/Colour	Steel/White		
- Tamper protection	Opening & removal		
Enclosure - Dimensions (W x H x D)	325 x 275 x 90mm		
- Material/Colour	Steel/White		
- Tamper protection	Opening & removal		
r - r	1 2 2 2 2 2 2		



Power supply unit 24v 1.5A



Accessory

Туре	ArtNo.	Description	Weight	
AB1207-2	N54545-Z116-A100	Battery 12V 7.2 Ah	2.43 Kg	
Ordering Information				
Туре	ArtNo.	Description	Weight	
2415VIP	N54545-Z116-A100	2415VIP PSU 24V/1.5A	3 Kg	

Issued by Vanderbilt Clonshaugh Business and Technology Park Clonshaugh Dublin 17 Ireland www.vanderbiltindustries.com

Data and design subject to change without notice. Supply subject to availability.

