Magnum VS

Modular, rack-mountable DC power supply for wireless and broadband network applications, and customer premises equipment.

Magnum VS100

Magnum VS50

Modular and flexible -48V DC power systems.

The Magnum VS Series is a modular -48Vdc power supply with unique features that make it easy to install, maintain and upgrade, and is, hence, a flexible power system that meets telecommunication and industrial application requirements.

There are two Magnum VS models; the Magnum VS 50 is a single-shelf, 50A system, and the Magnum VS 100 is a dual-shelf 100A system.

- ***Configurable***
- ***Reliable***
- ***Intelligent***
- ***Manageable***

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Magnum VS

Features:

- Universal AC input: 88V – 264Vac RMS
- 19” or 23” rack mountable
- Hot-swappable AC-DC rectifiers (1)
- Operating temperature range:
  -40°C to +60°C (-40°F to +140°F)
- Integrated System Controller: (2)
  SNMP & WEB Interface
- Battery temperature recharge compensation
- Scalable power : 10A to 50A or 100A
- Integrated Low Voltage Disconnect

Applications:

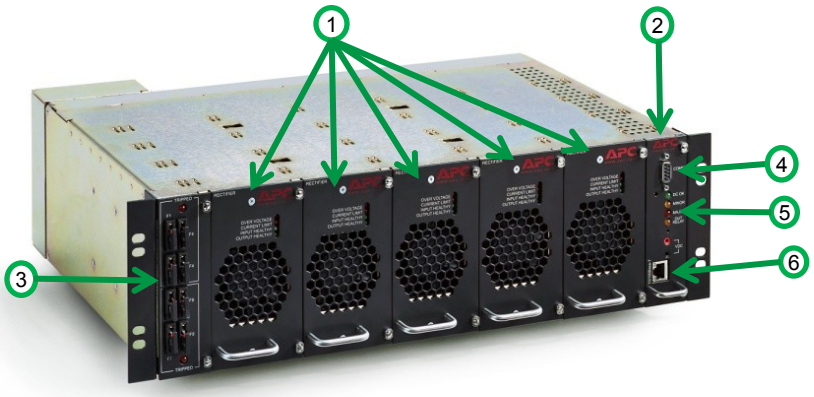
- Wireless Networks: Powering transmission equipment and amplifiers:
  - Mobile communications
  - Microvave links
  - Broadband
- Customer premises equipment :
  - PBX
  - VOIP
  - Broadband / fiber to the premises
- Broadband and fiber optic networks

Flexible Installation:

- Two and four post rack mountable
- Hardwired Input / Output
- Configurable AC input:1Ø or 3Ø (Star or Delta)
- Output distribution options (3)
  - VS50: 8 x GMT fuses or 2 x 30A or 1 x 60A circuit breakers
  - VS100: 16 x GMT fuses or 4 x 30A or 2 x 60A circuit breakers
- Configurable DC output power in 10A steps
- Software adjustable control and alarms

Manageable:

- Integrated dry contact output alarms
- User external alarm inputs
- DB-9 Serial Port Communications (4)
- LED Status Indicators: (5)
  - DC OK
  - Minor alarm
  - Major alarm
  - Output relay energized
  - Fuse or circuit breaker trip
- Ethernet connection point (6)



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Magnum VS

SKU Group	Magnum VS50	Magnum VS100
Input		
Input Voltage Range	88 – 264V per section (System configurable for 1Ø or 3Ø operation)	
Input Frequency	45 - 65Hz	
Input Current	5.5A nominal @ 115Vac and 3.0A nominal @ 230Vac per rectifier (All values are RMS)	
Input Power Factor	Typically 0.99 at full load (0.98 minimum)	
Input Connections	Hardwired Input (1Ø: 3-Wire; PH-N-G, 3Ø: 5-Wire; 3PH-N-G, 4-Wire; 3PH-G)	
Output		
Nominal Output Voltage	-48Vdc (Nominal float charge voltage at 25°C, -54Vdc)	
Maximum Output Capacity	-54Vdc at 52.5A - (AC input >176Vac at< 50°C)	-54Vdc at 105A - (AC input >176Vac at< 50°C)
Efficiency (Full-Load)	Typically 85% (including rectifier output diode) at full load	
System Output Noise	< 25mV rms, 10Hz to 100MHz, < 32dBrnC, 1.0 mV rms psophometric	
Output Distribution Connections	30A Circuit Breakers module: Pair of #10-32 studs on 5/8" centers per connection	
	60A Circuit Breaker module: Pair of #10-32 studs on 5/8" centers per connection	
	GMT fuses: Screw terminal connections for ring terminals with a 0.170 in (4.3 mm) clearance hole	
Battery		
Battery Type	Designed for use with external VRLA, nominal 48Vdc	
Battery Protection	Low Voltage Disconnect to prevent battery deep discharge	
	Battery polarity reversal protection to prevent accidental reverse connections	
	Battery over current protection via external module, options available	
Battery Recharge	Battery temperature recharge compensation	
	External temperature probe included, terminated at the rear of the chassis	
	Battery recharge current limit, user adjustable	
Battery Connections	Pair of #10-32 studs on 5/8" centers per connection	
CEMF Connections	Pair of #10-32 studs on 5/8" centers per connection	
Communications and Controls		
Serial Port	DB9; System Status, and Control of User Configurable Parameters via Telnet	
SNMP and WEB access	APC NMC card integrated as standard. WEB and SNMP via galvanic isolated RJ45 socket	
System User Alarms and external control	4 User Inputs – 2 Normally Closed – 2 Normally Open	
	3 User Outputs – Major, Minor & user defined – "Form C" relays	
	Connections via quick connect terminals at the rear of the chassis	
Visual Status Indicators		
System LEDs	DC OK – Green	
	Major Alarm - Red	
	Minor Alarm – Yellow	
	Out Relay – Yellow (Customer configurable alarm function)	
Physical		
Dimensions (H x W x D)	5.25" x 17.25" x 13" (133 x 438 x 330 mm)	10.5" x 17.25" x 13" (267 x 438 x 330 mm)
Net Weight	19lb (8.6kg) + 4lb (1.8kg) per additional rectifier	34lb (15.4kg) + 4lb (1.8kg) per additional rectifier
Color	Black front panels with yellow zinc finish chassis	
Environment (Excluding battery)		
Operating Temperature	-40ºC to +55ºC (-40°F to 131°F) with derating to +65ºC (149°F), as per rectifier details	
Operating Humidity	0 - 85% RH Non-Condensing)	
Storage Temperature	-45 To +85°C (-49°F to 185°F)	
Storage Humidity	0 - 95% (Non-Condensing)	
Conformance		
Regulatory Certifications	UL 60950, CE, FCC Part 15 Class A, EN55022 Class A, EN55024, EN61000-3-2, EN61000-3-3	