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



Features:

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

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

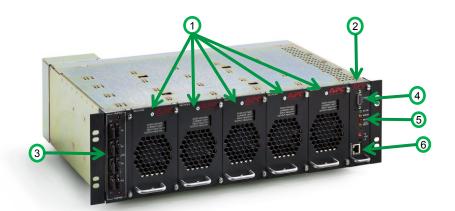
Applications:

- 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

Manageable:

- Integrated dry contact output alarms
- User external alarm inputs
- DB-9 Serial Port Communications 4
- LED Status Indicators: (5)

 - > DC OK
 - Minor alarm
 - Maior alarm
 - Output relay energized
 - > Fuse or circuit breaker trip
- Ethernet connection point 6





SKU Group	Magnum VS50	Magnum VS100					
Input	1						
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						
	30A Circuit Breakers module: Pair of #10-32 studs on 5/8" centers per connection						
Output Distribution Connections	60A Circuit Breaker module: Pair of #10-3.	2 studs on 5/8" centers per connection					
output Bistribution Connections	GMT fuses: Screw terminal connections for ring ter	·					
Battery	1 Similar confidence for the first terminal confidence for the first termi						
Battery Type	Designed for use with extern	al VPI A nominal 48V/dc					
Ballery Type	 						
Battery Protection	Low Voltage Disconnect to prevent battery deep discharge Battery polarity reversal protection to prevent accidental reverse connections						
Battery Protection	Battery over current protection via ex						
	Battery temperature rec	•					
Battery Recharge	· · · · · · · · · · · · · · · · · · ·						
Battery Recharge	External temperature probe included, terminated at the rear of the chassis						
Battery Connections	Battery recharge current limit, user adjustable						
CEMF Connections	Pair of #10-32 studs on 5/8" centers per connection Pair of #10-32 studs on 5/8" centers per connection						
Communications and Controls	1 all 01 #10-32 studs 011 3/0	centers per connection					
Serial Port	DB9; System Status, and Control of Use	r Configurable Parameters via Telect					
SNMP and WEB access	1						
SINIVIF AND WED access	APC NMC card integrated as standard. WEB and SNMP via galvanic isolated RJ45 socket 4 User Inputs - 2 Normally Closed - 2 Normally Open						
System User Alarms and external control	·						
System Oser Alarms and external control	3 User Outputs – Major, Minor & user defined – "Form C" relays Connections via quick connect terminals at the rear of the chassis						
Visual Status Indicators	Connections via quick connect term	illiais at the real of the chassis					
visual otatus mulcators	DC OK -	Green					
	DC OK – Green Major Alarm - Red						
System LEDs	-						
	Minor Alarm – Yellow Out Relay – Yellow (Customer configurable alarm function)						
Physical Physical	Out New York (Oustonie)	comgarable alarm function)					
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	· · · · · · · · · · · · · · · · · · ·	34lb (15.4kg) + 4lb (1.8kg) per additional rectifier					
Color	Black front panels with yellow zinc finish chassis						
Environment (Excluding battery)	1 Black from pariets with yel						
Operating Temperature	-40°C to +55°C (-40°F to 131°F) with derating to +65°C (149°F), as per rectifier details						
Operating Humidity	085% 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 C	Jaco A ENESCO24 ENESCOON 3 2 ENESCOON 3 3					



Rectifier							
Rectifier (AC / DC) SKU	1TWF0500H54B						
Nominal Output Voltage	54.5Vdc						
Efficiency	85% Typical						
Over Voltage Protection	59.5Vdc						
Output Current	9.0 A Minimum Continuous at 115 Vac Input						
Output Current	10.5 A Minimum Continuous at 230 Vac Input.						
Output Current Limit	9.3 A Maximum at 115 Vac Input						
Output Current Limit	11.0 A Maximum at 230 Vac Input						
Power Output @ 54.5Vdc	490 W Continuous at 115 Vac Input						
	570 W Continuous at 230 Vac Input						
Rectifier Output Current Characteristics against AC Input and Temperature	11						
Rectifier LED Status Indication	Overvoltage – Red						
	Current Limit – Red						
	Input Healthy – Green						
	Output Healthy - Green						

Configured SKU Options							
SKU Number	Magnum VS Group	Rectifiers Fitted	Additional Rectifier Slots Available	8 x GMT Fuse Distribution Module	2 x 30A CB Distribution Module	1 x 60A CB Distribution Module	
DCM00K03SGMT	VS50	One (1)	Four (4)	One (1)	Х	Х	
DCM00K03S2X30	VS50	One (1)	Four (4)	X	One (1)	Х	
DCM00K03S1X60	VS50	One (1)	Four (4)	Х	Х	One (1)	
DCM00K06SGMT	VS100	One (1)	Nine (9)	Two (2)	Х	Х	
DCM00K06S4X30	VS100	One (1)	Nine (9)	Х	Two (2)	Х	
DCM00K06S2X60	VS100	One (1)	Nine (9)	Х	Х	Two (2)	
Optional SKU Items for Magnum VS	Solutions		•				
SKU Number		Description					
1TWF0500H54B		Rectifier					
DCBT005		-48V 100AH C10 Battery String with inter-links					
DCMOPTBATE	2U 19'	2U 19" Battery Disconnect Module with Four (4) 100A CB & Cables Kit					
DCMOPTBATN	19"-Fı	19"-Frame Battery Tray, CB Disconnect, Termination Bus & Cable Kit					
DCMOPTCS1		2 AC line cords with L6-30P connectors					
DCMOPT23RM		23" Rack/Frame mounting kit VS50 & VS100					



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