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:  $-40^{\circ}$ C to  $+60^{\circ}$ C ( $-40^{\circ}$ F to  $+140^{\circ}$ F)
- Integrated System Controller: (2) SNMP & WEB Interface
- Scalable power: 10A to 50A or 100A
- Integrated Low Voltage Disconnect

### Battery temperature recharge compensation

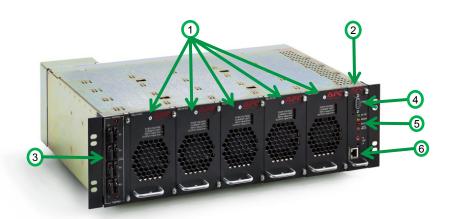
### Manageable:

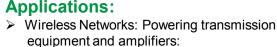
- Integrated dry contact output alarms
- User external alarm inputs
- DB-9 Serial Port Communications 4
- LED Status Indicators: (5)
  - > DC OK
  - Minor alarm
  - Maior alarm
  - Output relay energized
  - > Fuse or circuit breaker trip
- Ethernet connection point 6

#### 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





- Mobile communications
- Microvave links
- Broadband
- Customer premises equipment :
  - ➤ PBX
  - > VOIP
  - Broadband / fiber to the premises
- Broadband and fiber optic networks



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)						
Efficiency (Full-Load)	Typically 85% (including rectifier output diode) at full load						
System Output Noise	< 25mV rms, 10Hz to 100MHz, < 320	dBrnC, 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					
	GMT fuses: Screw terminal connections for ring ter	·					
Battery	1 Similar confidence and the first terminal confidence and the first termi						
Battery Type	Designed for use with extern	al VPI A nominal 48V/dc					
Ballery Type	<del> </del>						
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	External temperature probe included, to						
Battery Recharge	<u> </u>						
Battery Connections	Battery recharge current limit, user adjustable Pair of #10-32 studs on 5/8" centers per connection						
CEMF Connections	Pair of #10-32 studs on 5/8'						
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	APC NMC card integrated as standard. WEB a						
SINIVIF AND WED access	-	/ 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   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 Guiterit	10.5 A Minimum Continuous at 230 Vac Input.						
Output Current Limit	9.3 A Maximum at 115 Vac Input						
Output Ourient Emili	11.0 A Maximum at 230 Vac Input						
Power Output @ 54.5Vdc	490 W Continuous at 115 Vac Input						
1 Swell Output & 54.5vdc	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)	X	Х		
DCM00K03S2X30	VS50	One (1)	Four (4)	X	One (1)	X		
DCM00K03S1X60	VS50	One (1)	Four (4)	X	X	One (1)		
DCM00K06SGMT	VS100	One (1)	Nine (9)	Two (2)	X	X		
DCM00K06S4X30	VS100	One (1)	Nine (9)	Х	Two (2)	Х		
DCM00K06S2X60	VS100	One (1)	Nine (9)	Х	X	Two (2)		
Optional SKU Items for Magnum VS Solutions								
SKU Number		Region Availability						
1TWF0500H54B		All						
DCBT005		All						
DCMOPTBATE	2U 19'	EMEA						
DCMOPTBATN	19"-Fı	NAM						
DCMOPTCS1		NAM						
DCMOPT23RM		All						

