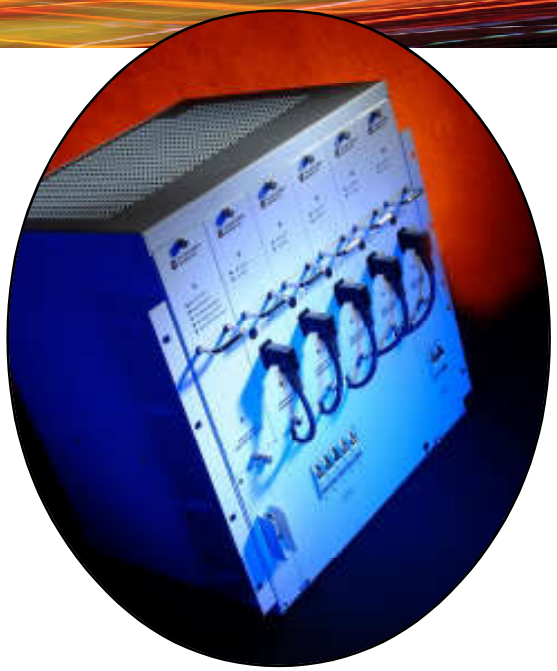
Oracle Series
2400w Cascadable PSU with Battery Management



- Operable in Mains-Free Standby Mode
- Boost & Cyclic Charge Modes
- N+1 Redundancy
- Power Sharing & Hot Swapable
- Configurable via RS232/485
- 19” Rack Mountable
- CE & EMC Compliant

Product Details

Engineered For Performance:

Setting the standard for mission-critical, high-powered output the Oracle Series Cascadable unit houses up to FIVE individually configurable 540W PSUs.
Modular design gives N+1 redundancy allowing on-line replacement of individual PSUs.
Even the system management card is removable for minimum down times.

Configurable Output:

Each Cascadable PSU can be configured to match your needs using standard PC hardware and Microsoft Excel software.
The same interface can be used to simply monitor the equipment providing you with valuable data on the continuity of your service.

Easy Installation:

With three interchangeable heavy-duty mounting options the Cascadable PSU can find a home in almost any enclosure.
Built-in high capacity cooling ensures efficient and consistent operation in less than favourable locations.

As with all Vxl Power’s products, custom specifications can be engineered upon request.

Vxl Power Limited, Westminster Trading Estate,
Station Road, North Hykeham, Lincoln, LN6-3QY, England.
T: +44 (0)1522 500511 E: sales@vxipower.com
www.vxipower.com

DC Output Voltages	
V01 System Supply Output.	28V max 22.8V min (Dependant on battery charge voltage). Battery voltage -1V max when running from standby battery.
V02 Battery Charger Output.	27.2V+/- 0.2V at 20°C 5mA Float current. Temperature compensated float voltage.
DC Output Current	
20A per module, Split between V01 & V02 to the following limits:	
Rack Total V01	0 - 65A (requires 4 modules)
Rack Total V02	0 - 45A (requires 3 modules) (Default V02 setting = 10A)
Line Regulation	
90 - 246V RMS	0.5% max all outputs.
Load Regulation	
V01	300mV max over the range 0 - 10A.
V02	N/A.
Output Ripple & Noise PSU load = 560w, nominal input 240V rms	
Ripple-Mains & Switching	150mV Ripple (0 - 500Khz). 300mV pk-pk noise (0 - 30 MHz).
Input Specification	
AC Voltage	90 to 264V rms.
AC Frequency	45 to 66Hz.
Input Current per Module	9A rms max at 90V. 3.2A rms max at 240V.
Inrush Current (Hot/Cold start)	Max inrush current Itd to > 15A peak @240V RMS. 18A peak @90V RMS
Fusing PSU per module	10A, 250V AC HRC Fuse.
Isolation	65A Front Panel Mounted Isolator.
Efficiency at 560W Output	>75% min at 110 - 264V Input (20 to 25°C ambient) 70% min at 90V.
DC Input 24V Lead Acid Battery	20 - 30V Nominal input range.
DC Current	65A Max. Dependant on system load.
Protection	80A DC. Circuit Breaker
Reverse Protection	Integral protection against reversed polarity connections.
Over Discharge Protection	Automatic battery disconnect below 20V
Dimensions (Approximate)	
Width	435mm. + Close profile bracket = 570mm
Height	490mm.
Depth	360mm. + Close profile bracket = 380mm
Weight	
Management Card Module	1.0Kg
PSU Module	2.4Kg
Cascadable Chassis	21.0Kg
Weight + 6 modules	46.0Kg

EMC	EN61000-3 Emissions. EN61000-2 Immunity/Susceptibility.
Safety	Meets EN60950.
Environmental	
Ambient Operating Temp	-10 to +50°C.
Storage Temperature	-20 to +85°C.
Humidity	5 - 95% non-condensing.
Ingress Protection	IP41.
Earthing	
Negative Earth	Earthed at either or, both the battery and the power supply.
Battery Test	Can be set to automatic or manual via RS232 / RS 485 port.
Test Limits	Start voltage, duration & max deviation. Configurable via RS 232 / RS 485.
Load at test	Fixed at 6A.
Communication	RS232/485 Data Port Available
Baud Rate	9600 baud (internally set)
Data Bits	8
Parity	Odd
Stop bit	1
Protocols	1. Terminal Communications Mode 2. MODBUS A full Data Port specification is available on request
Cable Specifications	
Battery power cables	80A rated, 10mm² minimum.
Mains supply cables **240V**	25A rated, 2.5mm² minimum.
110V	50A rated, 6mm² minimum.
Output Cables	20A rated, 2.5mm² minimum. 65A rated, 10mm² minimum.
Connectors	
Mains Input	63 Amp Screw down, circuit breaker. max Ø 16 mm²
Earth	6mm Stud.
V01 +ve	20 Amp Screw down, circuit breaker. max Ø 16 mm².
V01 -ve (30Volts)	Screw down terminal block. max Ø 16 mm².
Thermistor	Klippon BL5.08/2 max Ø 1.5 mm².
Battery Sense	Klippon BL5.08/3 max Ø 1.5 mm².
Bat Low / Mains Fail	Klippon BL3.5/6 max Ø 1.5 mm².
RS 485	Klippon BL3.5/3 max Ø 1.5 mm².
Serial RS232	9 way Male D.
Battery Switch	80 Amp.
Battery Input	Weidmüller, din rail mounted connector. max Ø 33 mm².

Model Number: 14665-000