



VxI POWER LIMITED

Oracle Series 2400W Cascadable PSU + Battery Management



Shown fitted with close profile brackets and optional IP54 Cowl

- ✓ Universal Input, Power Factor Corrected, AC-DC Switch Mode PSU.
- ✓ Operable in Mains-Free Standby Mode.
- ✓ Boost & Cyclic Charge Modes.

- ✓ Main Output - 28V Max @ 65A.
- ✓ Battery Charger Output - 24V Amp.

- ✓ N+1 Redundancy.
- ✓ Power Sharing & Hot Swap Capability.
- ✓ Interchangeable Mounting Options - Rack, Bracket, UniStrut™.
- ✓ Configurable Interface via RS232/485.

- ✓ Overload & Short Circuit Protection.
- ✓ Current Limit & Polarity Protection.
- ✓ Overvoltage & Undervoltage Lockout Protection

- ✓ CE, EN50081-2 & EN50082-2 Compliant.

General Features

Engineered For Performance:

Setting the 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 replaement of individual PSUs.

Even the battery mangement card is removeable for minimum down times.

Configurable Output:

Each Cascadable PSU can be configured to match you needs using standard PC hardware and Microsoft Excel software.

The same interface can be used to simply monitor the equipemnt 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 consistant operation in less than favourable locations.

As with all VxI Power's products, custom specifications can be engineered upon request.

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

EMC Safety	EN50081-2 Emissions. EN50082-2 Immunity/Susceptibility. Meets EN60950.
Environmental Ambient Operating Temp Storage Temperature Humidity Ingress Protection	-10 to +50°C. -20 to +85°C. 5 - 95% non-condensing. IP41.
Earthing Negative Earth	Earthed at either or, both the battery and the power supply.
Battery Test Test Limits Load at test	Can be set to automatic or manual via RS232 / RS 485 port. Start voltage, duration & max deviation. Configurable via RS 232 / RS 485. Fixed at 6A.
Communication Baud Rate Data Bits Parity Stop bit Protocols	RS232/485 Data Port Available 9600 baud (internally set) 8 Odd 1 1. Terminal Communications Mode 2. MODBUS A full Data Port specification is available on request
Cable Specifications Battery power cables Mains supply cables Output Cables	80A rated, 10mm ² minimum. 25A rated, 2.5mm ² minimum. 50A rated, 6mm ² minimum. 20A rated, 2.5mm ² minimum. 65A rated, 10mm ² minimum.
Connectors Mains Input Earth V01 +ve V01 -ve (30Volts) Thermistor Battery Sense Bat Low / Mains Fail RS 485 Serial RS232 Battery Switch Battery Input	63 Amp Screw down, circuit breaker. max Ø 16 mm ² 6mm Stud. 20 Amp Screw down, circuit breaker. max Ø 16 mm ² . Screw down terminal block. max Ø 16 mm ² . Klippon BL5.08/2 max Ø 1.5 mm ² . Klippon BL5.08/3 max Ø 1.5 mm ² . Klippon BL3.5/6 max Ø 1.5 mm ² . Klippon BL3.5/3 max Ø 1.5 mm ² . 9 way Male D. 80 Amp. Weidmüller, din rail mounted connector. max Ø 33 mm ² .

Model Number: 14665-000

