

LOW PROFILE, HEAVY DUTY POWER SUPPLY WITH PFC INPUT AND HIGH OUTPUT CURRENT DELIVERS UP TO 3000W LVS 2U5 SERIES – GENERIC DATA-SHEET

- Low-profile 2U rack-mount enclosure
- Electronic power factor correction (PFC)
- Up to 3000W output power
- Full electronic protection
- Industrial quality
- Field-proven design topology
- Cost efficient design



Absopulse Electronics' LVS 2U5 is a rugged, ac/dc power supply with power factor corrected (PFC) input. It delivers a fixed voltage of between 3Vdc and 15Vdc, with a maximum current of 400A or maximum power of 3000W, (whichever is the limit). Versions rated at the higher end of the power range, such as the 3000W system, require a 230Vac (180V to 264Vac) input voltage while lower power ratings accept universal input voltages of 95V to 264Vac. Robust construction ensures that the power supply will withstand high levels of shock and vibration. The use of professional quality components and rigorous quality control results in an MTBF exceeding 100,000 hours at 45°C. This fan cooled power supply is rated for full specification for temperatures of 0°C to 50°C, with extended temperature ranges available as an option.

SPECIFICATIONS

<p>Input Voltage 230Vac (180-264V) – for high power versions or 95V to 264Vac – for low power versions 47-63Hz</p> <p>Input Protection Inrush current limiting Internal safety fuse Varistor Lower voltage than the specified Minimum input will not damage the unit</p> <p>Input Power Factor: Min. 0.98 at full load for the entire Input range. Meets EN61000-3-2.</p> <p>Isolation 2250VDC input to chassis 4300VDC input to output 8mm spacing 500VDC output to chassis</p> <p>Standards Designed to meet EN60950 and corresponding UL & CSA Standards</p> <p>EMI EN55022 Class A</p>	<p>Hold-Up Time Min. 10ms at any input for 5% drop of the output voltage</p> <p>Switching Frequency 100KHz Boost section 50KHz DC/DC section</p> <p>Output Voltage/Current Any voltage from 3V to 15V. Max current 400A, max power 3000W (whichever is the limit). Output is floating, either terminal can be grounded.</p> <p>Redundancy Diode None</p> <p>Line/Load Regulation +/-1% combined from zero load to full load</p> <p>Dynamic Response Max 5% voltage deviation for 10% to 50% load step, with better than 1msec recovery time</p> <p>Output Ripple/Noise Better than 40mVrms or 200mVpp (@ 20MHz BW)</p>	<p>Output Overload Protection Rectangular current limiting with short-circuit protection (no hiccup) Thermal shutdown in case of insufficient airflow (self-resetting)</p> <p>Output Over-voltage Protection Second regulator loop, completely stable and independent of main regulator loop</p> <p>Efficiency min. 80% at full load</p> <p>Operating Temperature Range 0 - 50°C for full specification</p> <p>Cooling Built-in fans</p> <p>Temperature Drift 0.03% per °C over operating temperature range</p>	<p>MTBF 100,000 hours @ 45 °C (fans not included)</p> <p>Indicators Output ON LED on the front panel (green)</p> <p>Alarm Output None</p> <p>Environmental Protection Basic ruggedization</p> <p>Package/ Dimensions 2U x 19" x 18" see outline drawing</p> <p>Weight 20 lb (9 kg)</p> <p>Connections Input: Phoenix series MKDS5/3-9.5 Output: ¼ " brass studs</p> <p>Warranty Twelve months subject to application within good engineering practice.</p>
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Enhancements to these general specifications and customizing can be accommodated upon request. Specifications subject to change.

Designer and manufacturer of quality converters, inverters, UPS systems, complete rack mount systems and DC-input fluorescent lamp inverters since 1982. Custom or standard. Absopulse is a BABT-approved Facility.



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