

28VUPS-5

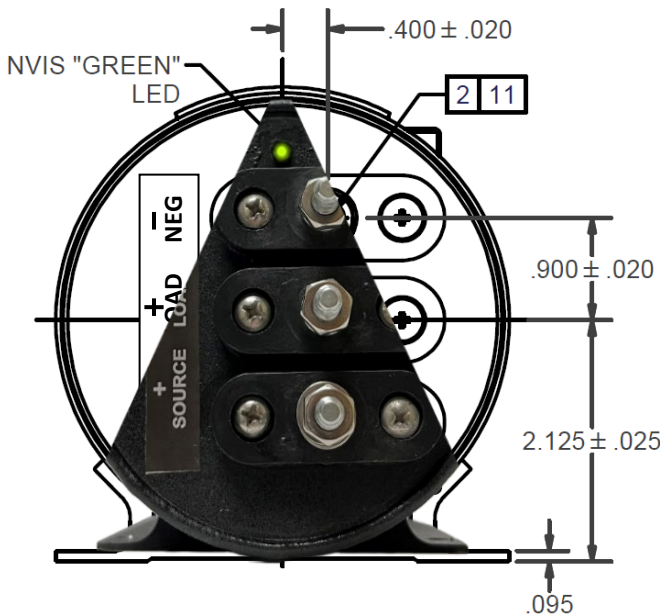


Champion Aerospace’s 28VUPS-5 is an uninterruptible power supply that features a new, lightweight aluminum enclosure. This UPS is capable of selective load support on the designated load terminal and features a blocking diode to protect sensitive equipment from electrical back feed.

The UPS provides bridge power to select mission equipment during AC bus transfers, low voltage sags, and other AC/DC interruptions. This allows critical utilization equipment to maintain full operational capability and “ride through” these conditions without challenging upstream breakers and fuses. Champion’s UPS device is compatible with all power converters and preserves the life of utilization equipment and keeping flight and mission critical instruments accurate and online.



Developed for C-130J



Designed to meet MIL-STD-704 (A-F) for Aircraft Electrical Power, the 28VUPS-5 is the latest development in a complete line of uninterruptible power supplies produced by Champion Aerospace, LLC.

ENCLOSURE	.....SEALED, 6061 Aluminum
CHARGE CURRENT (CONSTANT)	..... 3 A
CHARGE TIME	.....5 Minutes
POWER CAPABILITIES	..... See back page for Curve
ELECTRICAL CONNECTIONS	.....1/4-20 UNC Source, Load, & Negative Stud
OPERATING TEMP. & ALTITUDE RANGE	..... - (-40° C to 71° C), Sea Level to 8,000 ft.
HOLDUP TIME	..... 2 Seconds
WEIGHT (Max)	..... 4.9 lb. (2.22 kg)
DIMENSIONS (LxDIAxH) (Max)	..... 11.50 in. x 4.20 in. x 4.30 in.
MOUNTING POSTION	..... Any
SHORT CIRCUIT FAULT CURRENT	.....400 A, 2 ms Max

TECHNICAL NOTES

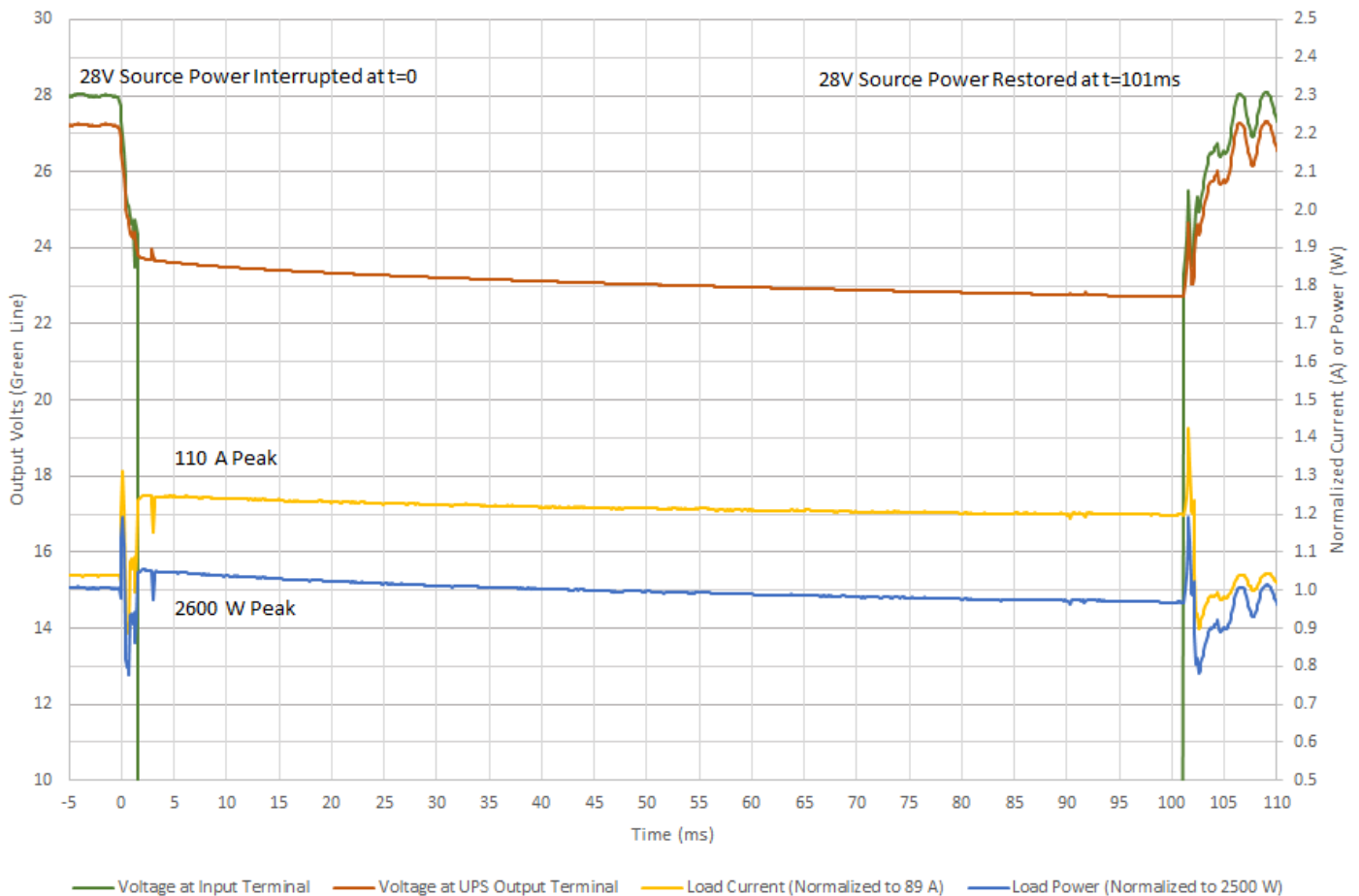
The 28VUPS-5 nominally provides up to 100A for 500 ms and automatically disconnects from the power system within 2 seconds of a power system shutdown.

All circuitry in the 28VUPS-5 is based on supercapacitor and solid state technology. The UPS source terminal should be connected to a 28V circuit breaker, and the load terminal directly to the critical load served.

The internal low output voltage sensor disconnects at 18 VDC to prevent undervoltage power to the DC loads. The timeout feature disconnects the output line after a loss of aircraft power for the purpose of complying with an intentional shutdown. These settings are customizable upon request. The NVIS compatible LED indicates the load terminal is energized.

All Champion UPS devices are fully automated with no manual switches or complex control inputs. The internal controls and timers are provided by discrete components with no software—**meaning no DO-178 requirements to address.**

Champion UPS 100 ms Power Interrupt
2500 W Simulated Constant Power Load (215 mΩ at 23 V)



[Contact Champion Aerospace for a Complimentary Consultation with an Applications Engineer.](#)

