

DUC800-28 | UNIVERSAL CHASSIS PSU

Military-Grade 800W AC-DC Power Supply

MODEL: DUC800-28 | CATEGORY: AC-DC | RATED POWER: 800W | FORM: PSU

PRODUCT OVERVIEW



Key Product Features

- 800W continuous output capability
- 24–28 VDC outputs
- Universal 90–264 VAC input
- 50 ms hold-up time
- Front-panel status indicators
- Fully enclosed thermal architecture
- Scalable modular power architecture
- MIL-ruggedized and commercial variants available
- EMI/EMC-hardened design
- Withstand 40G shock and vibration levels
- Field-installable modular chassis mounting

PRODUCT DESCRIPTION

The DUC800-28 is a rugged 800W power supply designed for use in universal chassis applications requiring mission-ready AC-to-DC power delivery for

tactical computing and communications systems. It supports worldwide 90–264 VAC input and provides dual independent 24–28 VDC output rails, enabling reliable operation from global AC power sources in harsh and demanding deployed environments.

Designed as a modular chassis-side accessory, the DUC800-28 combines high conversion efficiency, 50 ms hold-up time, front-panel status indicators, and a fully encapsulated thermal architecture to ensure reliable operation during short power interruptions and under extreme shock, vibration, dust, humidity, and other harsh field conditions. Available in both MIL-ruggedized and commercial variants, it supports tactical networking systems, deployable data centers, vehicle and aircraft installations, communications shelters, and expeditionary command posts.

SAFETY CERTIFICATES

- MIL-STD-461G EMI/EMC
- MIL-STD-810G/H environmental ruggedization
- MIL-STD-704 and MIL-STD-1275 compatibility
- RoHS and CE compliant



APPLICATIONS

- Deployable tactical networking systems
- Military communications shelters
- Vehicle and airborne computing platforms
- Expeditionary command posts
- Modular data centers
- Harsh-environment edge computing

ELECTRICAL SPECIFICATIONS

Input and Output	Specification
Input Voltage	90–264 VAC
Input Frequency	50–60 Hz
Output Voltage	24–28 VDC
Output Power	800W minimum
Output Channels	Dual outputs
Hold-up Time	50 ms
Power Factor	0.95 minimum
Over Current Protection	105–140% manual reset
Over Voltage Protection	125–145%
Cooling	Integrated thermal mitigation

Environmental	Specification
EMI/EMC	MIL-STD-461G EMI/EMC
Environmental Ruggedization	MIL-STD-810G/H environmental ruggedization
Power System Compatibility	MIL-STD-704 and MIL-STD-1275 compatibility
Operating Temperature	-20°C to +55°C
Storage Temperature	-50°C to +85°C
Compliance	RoHS and CE compliant

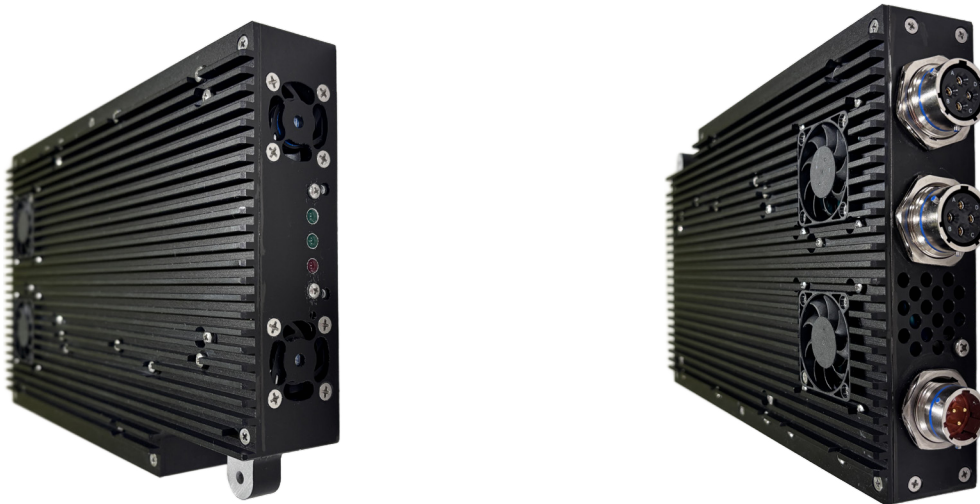
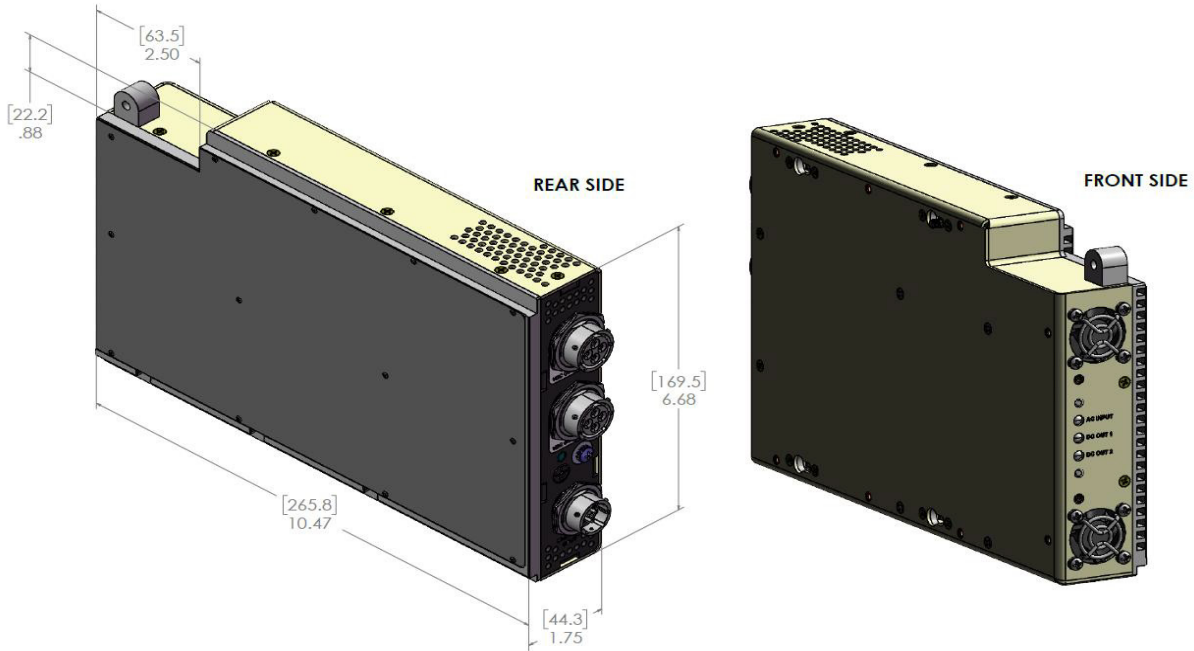
Connector Information	Specification
MIL Variant AC Input	MS3474L12-3P
MIL Variant DC Output	MS3474L14-4S
Commercial AC Input	IEC-60320-C14
Commercial AC Output	IEC-60320-2-2/F

RELIABILITY & THERMAL DESIGN

The DUC800-28 utilizes a fully enclosed thermal architecture optimized for enhanced cooling efficiency, reliability, and environmental protection in shock, vibration, dust, humidity, and extreme operating environments. Its integrated thermal management system enables continuous full-load operation without the need for external cooling support.

For quotes and customization requests, contact Digital Power sales at (877) 634-0982 or sales@digipwr.com.

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