

270V / 75A SECONDARY POWER DISTRIBUTION



FEATURES & BENEFITS:

- RTCA DO-160G qualified
- 30% reduction in system weight through the absorption of other system functions
- Reduced pilot workload by automated load shedding and conditional control logic
- Patented arc-fault and fail open technology
- RTCA DO-178 Level A qualified Logic Designer visual-interface software tool for easy setup and system changes
- No external cooling system needed
- Channel paralleling for higher current loads
- Customizable trip-curve tailoring
- Solid-state speed and reliability for advanced wire and load protection

High-Power Performance, Smarter Distribution

AMETEK's Secondary Power Distribution Units (SPDUs) are engineered for demanding aerospace and defense platforms that require exceptional power handling without compromising size or flexibility. Unlike standard power distribution solutions, this SPDU delivers up to 270V / 75A of continuous DC current per channel at 70°C to support modern high-load systems such as UAVs, eVTOLs, and business jets.

This SPDU doesn't just distribute energy—it manages it intelligently. Advanced features like arc-fault detection, remote load control, and automated load shedding elevate system safety, simplify diagnostics, and optimize operational uptime.

Available in single or dual-channel configurations, each unit supports up to 8 independently managed outputs per channel via Solid-State Power Controllers (SSPCs), giving you precise control and robust protection in a compact, lightweight package.



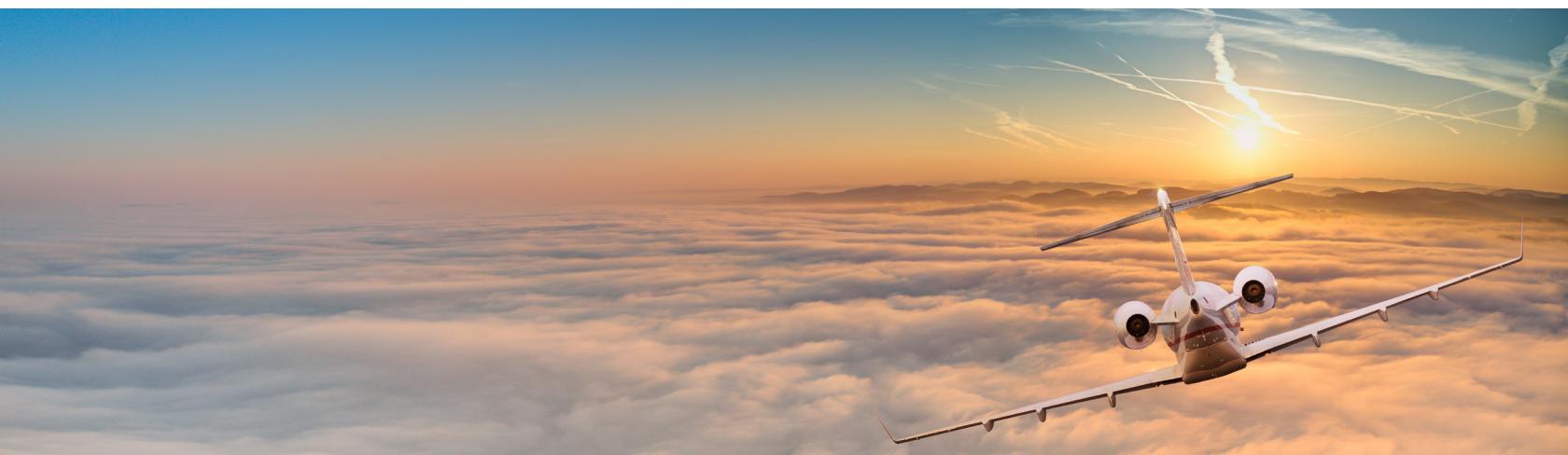
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SPECIFICATIONS:

Specification	Dual-Channel	Single-Channel
Solid-state power controllers	Up to 16	Up to 8
Steady-state current	Up to 150A	Up to 75A
RS-485 transceivers @ 500 kbps	4	2
28V/Open assignable discrete inputs	6	3
28V/Open discrete outputs @ 250mA	4	2
GND/Open assignable discrete inputs	20	10
GND/Open discrete outputs @ 500mA	8	4
Complementary health status GND/Open discrete outputs @ 250mA	4	2
RCCB control outputs @ 900mA trip	4	2
Dimensions (excluding connectors)	9.9 x 9.7 x 3.4" (251 x 246 x 85mm)	9.9 x 4.9 x 3.4" (251 x 59 x 85 mm)*
Weight	11 lbs (5.0kg) max	6 lbs (2.7 kg) max*

*Estimated

- SSPC ratings: 7.5A, and 15A
- Configurable SSPC trip settings
- Configurable default power up state and delay for SSPCs/RCCBs
- SSPCs/RCCBs controllable via discrete inputs and digital communication
- Arc-fault protection and fail-safe operation
- MIL-DTL-38999 connectors
- Operating voltage: 18 VDC to 32 VDC, 10V engine start
- Operating temperature range: -40°C to +70°C



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