

# 28V / 100A 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

## Power Distribution Made Smarter

AMETEK's Secondary Power Distribution Units (SPDUs) offer a lightweight, flexible, and space-saving solution for today's advanced aerospace and defense platforms—from UAVs and eVTOLs to helicopters and ground vehicles. Designed to streamline system architecture, SPDUs reduce wiring complexity and free up valuable panel space.

Beyond protection, the SPDU brings intelligence to your power system. With built-in features like arc-fault detection, remote load control, and automated load shedding, it helps enhance safety, simplify maintenance, and improve operational efficiency.

Choose from single or dual-channel models, each capable of handling up to 100A of continuous DC current per channel at 70°C. With up to 24 outputs per channel, each managed by independent SSPCs, you get precise control and reliable protection in a compact footprint.



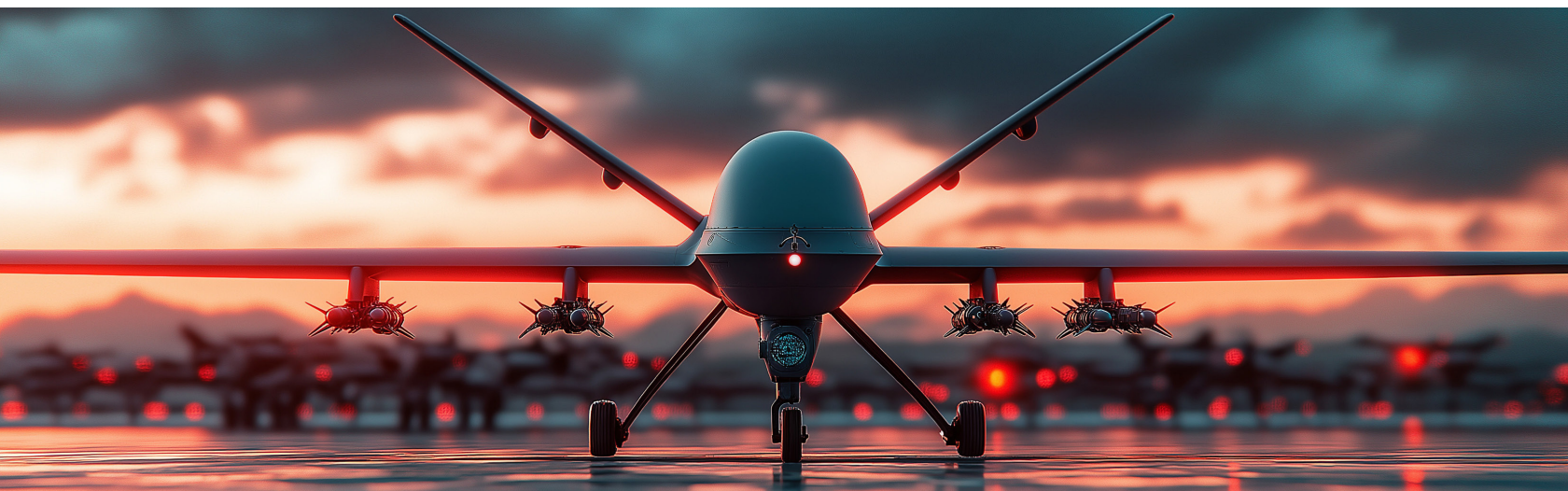
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## SPECIFICATIONS:

| Specification   | Dual-Channel                           | Single-Channel                          |
|---|--|---|
| Solid-state power controllers                                 | Up to 48                               | Up to 24                                |
| Steady-state current  | Up to 200A                             | Up to 100A                              |
| 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"<br>(251 x 246 x 85mm) | 9.9 x 4.9 x 3.4"<br>(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
- Pulse Width Modulation: 1 to 200 Hz, 4 to 96%
- 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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