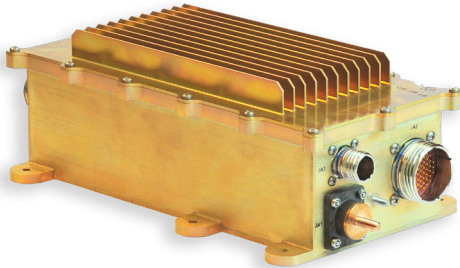


DC SECONDARY POWER DISTRIBUTION

Dual-Channel SPDU



Single-Channel SPDU

FEATURES & BENEFITS:

- Certified on over 25 civilian and military fixed wing and rotorcraft applications
- 25% reduction in system weight through the absorption of other system functions
- Reduced pilot workload by automated load shedding and conditional control logic
- Level A criticality HIRF certified
- Patented arc-fault and open fail technology
- RTCA-DO178 pre-validated Level A logic designer visual-interface software tool for easy setup and system changes
- Vibration certified for fixed wing, turbo jet, turbo prop, helicopter and aircraft / ground vehicle gunfire
- No external cooling system needed
- Submersible up to 39.2"(1m)
- Channel paralleling for higher current loads
- Customizable trip-curve tailoring
- Solid-state speed and reliability for advanced wire and load protection

Our Secondary Power Distribution Unit (SPDU) provides a highly configurable, rugged, flexible and lightweight power distribution system for today's modern Jets, Helicopters, UAVs and Military Ground Vehicles. Our proven SPDU system design uses less cockpit panel space and reduces wiring and circuit breaker requirements for lower overall system weight and more space for other equipment.

Designed to provide circuit and wiring protection, our SPDU also offers built-in advanced convenience and safety features. The system can be configured to handle arc-fault detection, pulse width modulation, remote load power control, load power monitoring, automated load shedding and other prognostic and diagnostic maintenance activities.

Single and dual-channel versions are available. Both are capable of distributing up to 144A of DC current per channel continuously at up to 70°C and can be configured with up to 27 power outputs per channel, each protected by independent solid state power controllers (SSPCs).



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SPECIFICATIONS:

Specification	Dual-Channel	Single-Channel
Solid-state power controllers	Up to 54	Up to 27
Steady-state current	Up to 288A	Up to 144A
ARINC 429 high speed transmitters	2	1
ARINC 429 high speed receivers	4	2
CAN 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
10Mbit Ethernet interfaces for maintenance and software updates	2	1
Dimensions (excluding connectors)	10.2 x 9.5 x 4.0" (259 x 241 x 102mm)	10.2 x 4.6 x 4.0" (259 x 117 x 102mm)
Weight	12.0 - 13.7lbs (5.44 - 6.21kg)	6.3 - 6.9lbs (2.86 - 3.13kg)

- SSPC ratings: 7.5A, 15A and 30A
- 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 protection
- MIL-DTL-38999 connectors
- Operating voltage: 18 VDC to 32 VDC, 10V engine start
- Operating temperature range: -55°C to +70°C

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Learn more at: AMETEKPDS.com