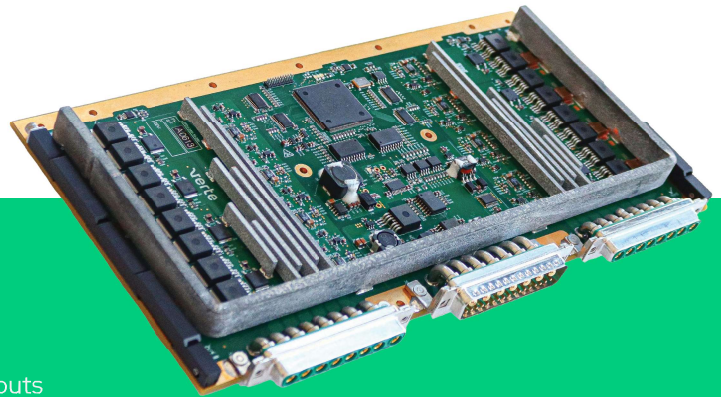


# SSPDU-28D-240-A01

## 16 Channel, 240A, 28 VDC Solid State Power Distribution Unit

VERTE Electronics SSPDU-28D-240-A01 series is a high-power density, low profile power distribution unit with 16 channel outputs designed for use in various platforms. It distributes the input voltage in the range of 6-33V to the loads via semiconductor switches with overload and short circuit protection. Device control and configuration can be done and status information can be displayed via CAN and RS-485 communication interfaces. The SSPDU-28D-240-A01 is designed for air, sea and land vehicle platforms in accordance with the harshest environmental conditions and superior performance targets.



### Capabilities

- 16 independent channel outputs
- User adjustable I<sup>2</sup>t Protection / Thermal Memory
- High capacitance load control with controlled output voltage rise time
- Channel outputs with rated current of 7.5A, 15A and 30A
- Channel paralleling option for high output currents
- Total 240 A unit output current (continuous)
- Cooling by conduction
- Continuous built-in testing
- Protection override (Battle Mode)
- Emergency shutdown
- SAE J1939 compliant CAN and RS485 Interface
- Discrete Control Interface
- User configuration settings are stored internal memory

### With PC Software

- Channel Status View
- Channel Paralleling for high current
- Adjust I<sup>2</sup>t, error trip values
- Define on-off scenario
- Record data for analysis
- Load prioritisation

## Performance

- Designed to meet MIL-STD-1275E compliance
  - o 6-33 VDC continuous input voltage value
  - o 100V 50ms Surge &  $\pm 250V$  70 us spike
- Designed to meet MIL-STD-461G
- Designed to meet MIL-STD-704F
- Designed to meet MIL-STD-810G

## Protections

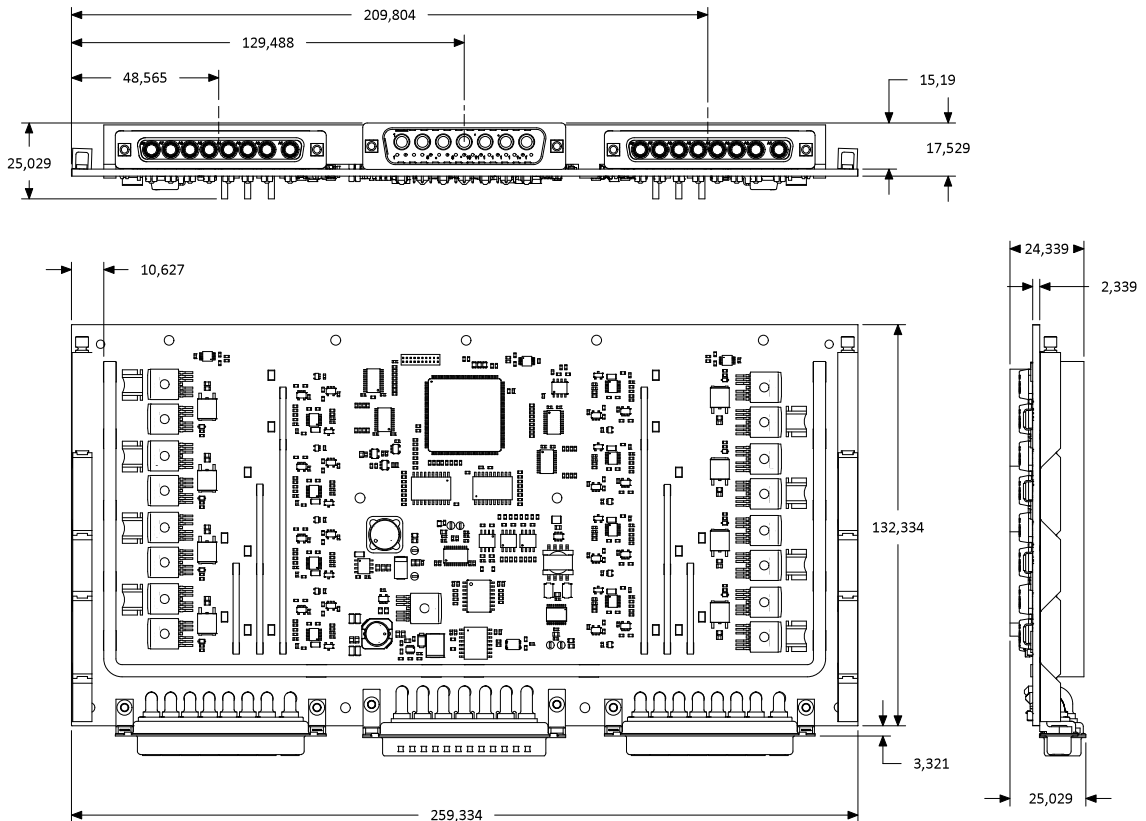
- I<sup>2</sup>t Protection
- Rapid short circuit protection
- Instant Trip at user defined Current value
- Adjustable UVLO & OVLO Protections
- Diagnostics Data
- Thermal Protection

## Benefits

- 20x more MTBF value compared to traditional electromechanical PDUs
- High density, durable design
- Minimized Maintenance
- Configurable power distribution
- Various mechanical enclosures available for special applications

## Applications

- o Military Land Vehicles
- o Commercial Trucks
- o Industrial Controllers
- o Military and Commercial Ships
- o Weapon Systems
- o Unmanned aerial and ground vehicles
- o Aviation (Secondary Power Distribution Unit-SPDU)



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