

## MODULUS

### A COTS Modular Power Distribution Solution

#### SSPDU Highlights

- Modular architecture to accommodate different Power Modules (PM), number of SSPCs, and SSPC current ratings
- Superior I<sup>2</sup>t circuit protection without nuisance trip associated with capacitive and motor loads
- Digital Communication Interfaces are equipped to provide SSPC control, status, current, and voltage data (MIL-STD-1553, RS-485, CAN Bus, or Ethernet)
- Programmable current rating and various modes of operation (start-up, maintenance, and 10+ operational modes)
- Flexible Configuration, up to 8 Power Module Slots:
  - 28 VDC SSPCs – up to 96 channels
  - 270 VDC SSPCs – up to 64 channels
- Enhanced EMI Performance with load return to the unit
- The box is naturally cooled through convection, thus no additional cooling or mounting provisions are required to distribute up to 340 Amps

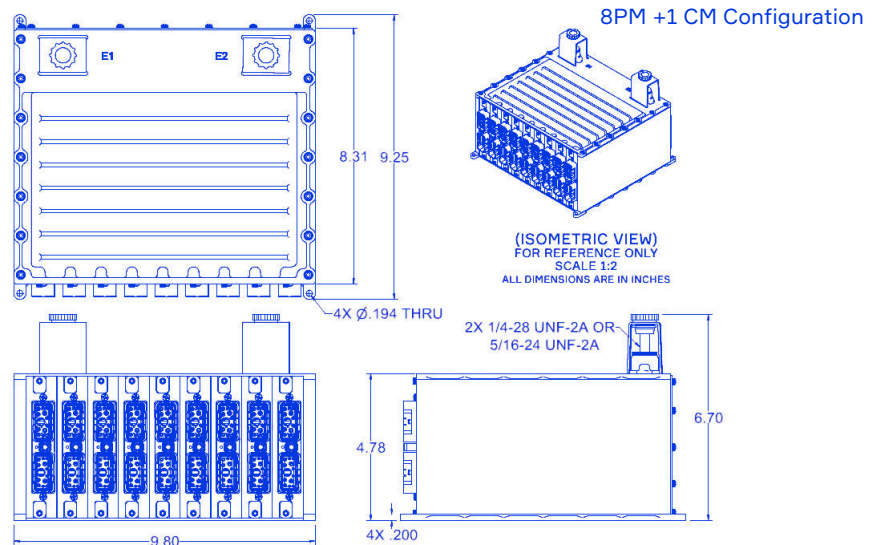


### The Future of Power Distribution

Introducing the future of Solid State Power Distribution Unit (SSPDU), a groundbreaking advancement in 270 VDC and 28 VDC power distribution technology. Engineered to modernize traditional approaches, this SSPDU provides design flexibility to expedite development time and minimize change impact.

This innovative solution means reduced weight, unprecedented power density, and a compact envelope. Its modular architecture supports up to 96 channels of 28 VDC or 64 channels of 270 VDC power distribution, enabling customizable configurations for diverse avionics requirements.

### SSPDU Envelope





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## SSPDU Configurations

- 4 Chassis configurations available for weight optimization: 2-Slot, 4-Slot, 6-Slot and 8-Slot
- SSPDU has an additional slot for the Controller Module based on the selected digital communication standard
- Alternative input terminal types and locations available
- Alternative mounting options: Side flange and J-Hook

## Industry Standards

- Designed to the following standards:
  - RTCA/D0-160G
  - MIL-STD-810H
  - MIL-STD-704F
  - RTCA/D0-178C Level A

## Applications

- Commercial Aircraft
- Military Aircraft
- Rotorcraft
- Ground Vehicles
- Rail

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Size and Weight				
Configuration	Width (in)*	Depth (in)	Height (in)**	Weight (lbs)
2 PM + 1 CM	4	8.7	4.8	6.5
4 PM + 1 CM	6	8.7	4.8	9
6 PM + 1 CM	8	8.7	4.8	11.5
8 PM + 1 CM	10	8.7	4.8	14
*Add 1 in to width for flange mount option				
**6.7 in. with top input terminal				

## 270 VDC Power Modules Configurations

POWER MODULE CARD OPTIONS	MAX CURRENT RATING						TOTAL CHANNELS
	7.5A	13A	17A	23A	30A	46A	
270PM1		8					8
270PM2			6				6
270PM3				4			4
270PM4					3		3
270PM5						2	2
270PM6		2	2			1	5
270PM7	5		3				8
270PM8		4		2			6
270PM9		4	2		1		7
270PM10		1	1	1		1	4
270PM11	5		1		1		7

## 28 VDC Power Modules Configurations

POWER MODULE CARD OPTIONS	MAX CURRENT RATING					TOTAL CHANNELS
	7.5A	13A	23A	30A	46A	
28PM1		12				12
28PM2			6			6
28PM3					3	3
28PM4	6	4		1		11

## Why Leach International?

Leach International Corporation designs and manufactures relays, electronic control devices, and power distribution equipment primarily for aerospace and defense industries. Since 1919, Leach has been known for design excellence and commitment to quality and reliability.

Our 100-year legacy includes the invention of the electrical relay for aircraft systems. Worldwide, our equipment and components are used in the most severe conditions where reliability and high performance are critical, in thousands of aerospace, military, rail and high-end industrial applications.