

Seat Power Series - IFEC & PED Solutions



Product Brief

Model: SP-280




DDC's 280W converter supplies 28V power for IFEC electronics and USB charging ports for Portable Electronic Devices (PED) to up to 24 seats, with a compact, high output, and cost effective solution that delivers the industry's best power efficiency performance.

Key Features

Performance

- Power efficiency: >92% nominal (power factor >0.95)
- Input voltage: 100 to 122Vrms, 300-800Hz, wild frequency aircraft power
- Output power: 280W (28VDC @ 10A)
- Safety features: over-current protection, thermal shut-down, and short-circuit protection

Environmental

- Compact, low profile package: 205mm x 140mm x 46mm (8.07in x 5.51in x 1.81in)
- Weight: 1.32Kg (2.90lbs)
- EMI compliant with RTCA/DO-160G
- Input current harmonics and inrush current limit compliant with RTCA/DO-160G requirements.
- Operating temperature: -15°C to +55°C
-  Meets the requirements of the current EU ROHS directive 2011/65/EU
- Convection cooled chassis, no additional cooling or fans required

Benefits

- Space saving design enables more comfort/space for passengers—below seat boxes, brackets, or shrouds are no longer necessary as this compact unit can be conveniently mounted within the cabin wall or ceiling
- Best-In-Class power efficiency optimizes power utilization and generates less heat than competing units
- No MCU/CLCU required, saving installation efforts and cost
- Safe, reliable power—built-in over-current protection, thermal shut-down and short circuit protection protect passenger and aircraft electronics
- Shortest installation time of all power systems available

Applications

- Passenger seat USB PED Charging
- Lighting
- Displays
- Galleys
- Cockpit
- Connectivity systems

Custom Design Capability - DDC can customize designs for all products, ranging from simple modifications of standard products to fully customized solutions for commercial, military, aerospace, and industrial applications.

For more information: www.ddc-web.com/sp-280

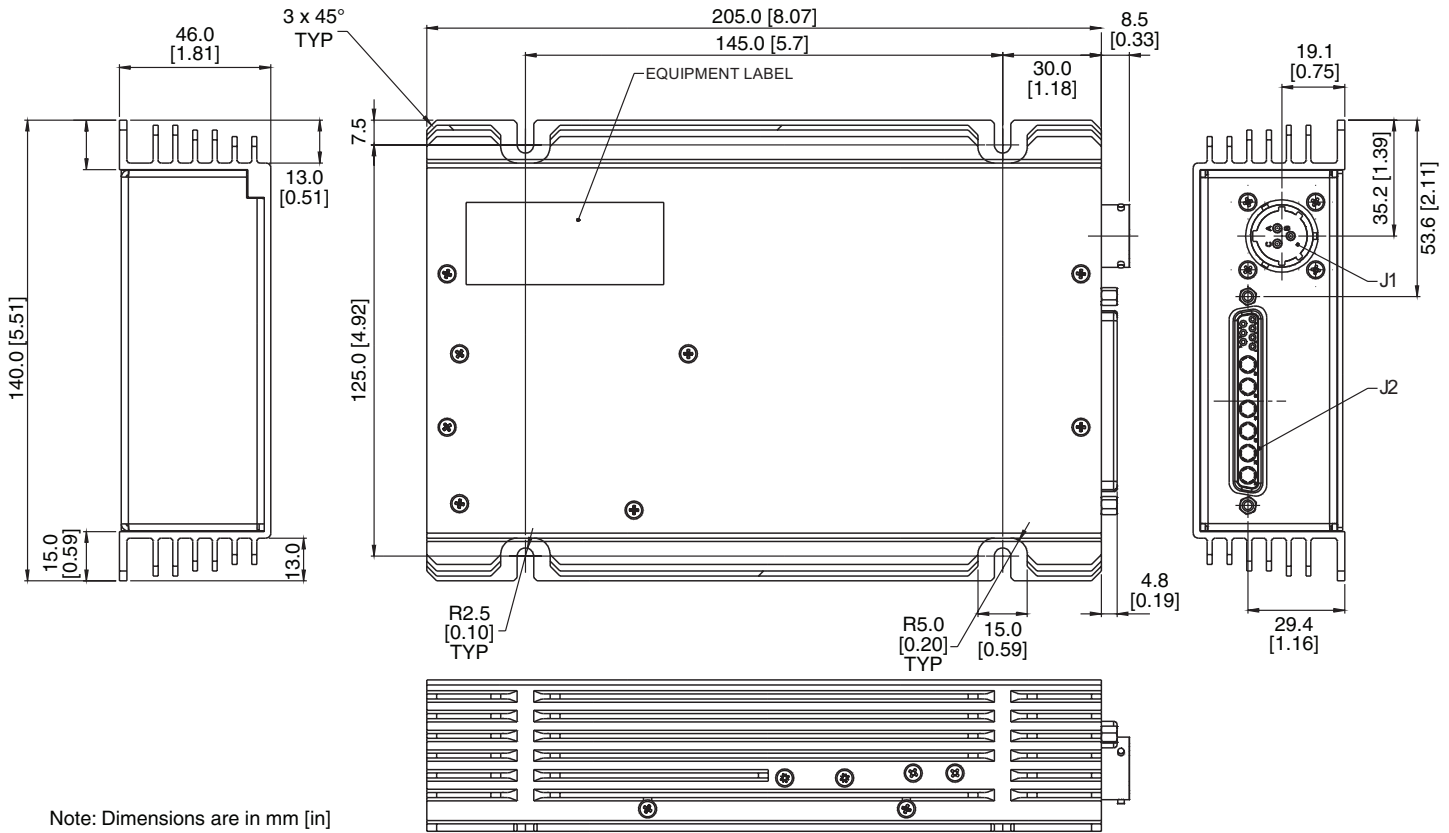
Overview

Offering best-in-class power efficiency and reliability, the compact SP-280 power solution affords aircraft integrators a cost effective means to shorten installation time, while freeing up valuable cabin space for passenger comfort and safety.

Ordering Information

Part Number: 1-14683R

Mechanical Outline



Note: Dimensions are in mm [in]



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