



## 3200W, Titanium Efficiency AC-DC Power Supply

D1U74T-W-3200-12-HB4C

Murata Front End Power AC-DC Series

# D1U74T-W-3200-12-HB4C

Titanium Efficiency, 3200W, AC-DC Power Supply

- Form Factor:
  - 74mm x 185mm x 40mm
  - 2.15" x 7.28" x 1.57"
- 3208.6W Total output power capability 220-240V<sub>AC</sub> Nom.
- 90-264VAC Input, IEC320-C22 AC input connector, rated for high backpressure back to front systems.
- 12V<sub>DC</sub> Main Output, 12V<sub>DC</sub> Standby Output
- >97W/cubic inch power density
- 5°C to +55°C temperature range
- Hot pluggable, N + 1 Redundancy, Integral ORING isolation devices for both outputs
- Overvoltage, overcurrent, overtemperature fault protection
- Complies with International Safety Standard IEC62368-1 & IEC60950-1



Limited Disclosure

# Recommended Applications

**High Output Power, Titanium Efficiency, Standard Form Factor**

Designed to provide efficiency and reliability for computing infrastructure supporting:

- ◆ Edge Computing
- ◆ Cloud & Hyperscale Servers
- ◆ Supports GPUs used in **Artificial Intelligence** training and interfacing
- ◆ Telecommunications & Networking Equipment
- ◆ Large-scale **Data Storage Arrays**

# PMBus

- D1U74T-W-3200-12 features advanced PMBus capability, more memory and more MCU power for better configurability across broader applications. Comprehensive PMBus command for flexibility and wide range of deployments.
- PMBus data and other data shall be saved to non-volatile memory upon a critical failure that causes the power supply to shutdown for debugging, analysis and fault tracking. Data is saved to the Black Box for the following fault events:
  - General fault
  - Over voltage on output
  - Over current on output
  - Loss of AC input
  - Input voltage fault
  - Fan failure
  - Over temperature

# Cold Redundancy

Enable Power Supplies to maintain Best Efficiency

- ▀ In cold redundancy, the minimum number of power supplies required to support the highest efficiency power delivery are turned on.
  - Multiple redundant power supplies are available but remain in standby until the load becomes too large, or the active PSU fails, standby units automatically take over.
- ▀ PMBus Command CR\_BUS: When CR\_Bus is pulled low, when there is a fault, or the power supply output voltage falls below the V<sub>fault</sub> threshold, all power supplies in cold standby state turn on.
- ▀ Cold redundancy reduces power consumption and heat generation, and can extend the lifespan of power supplies

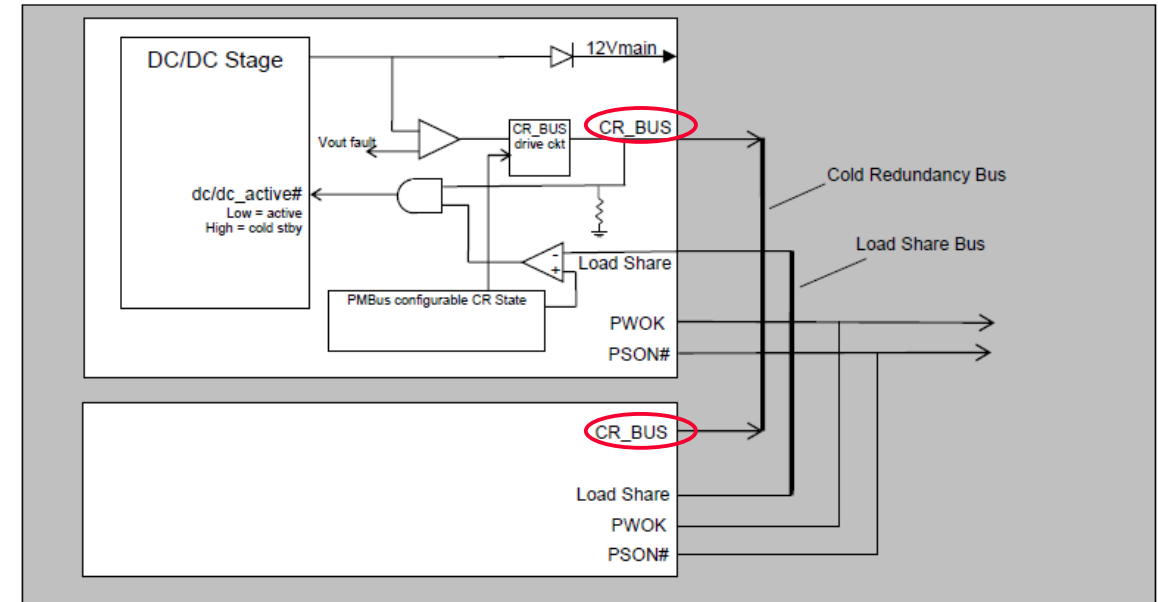
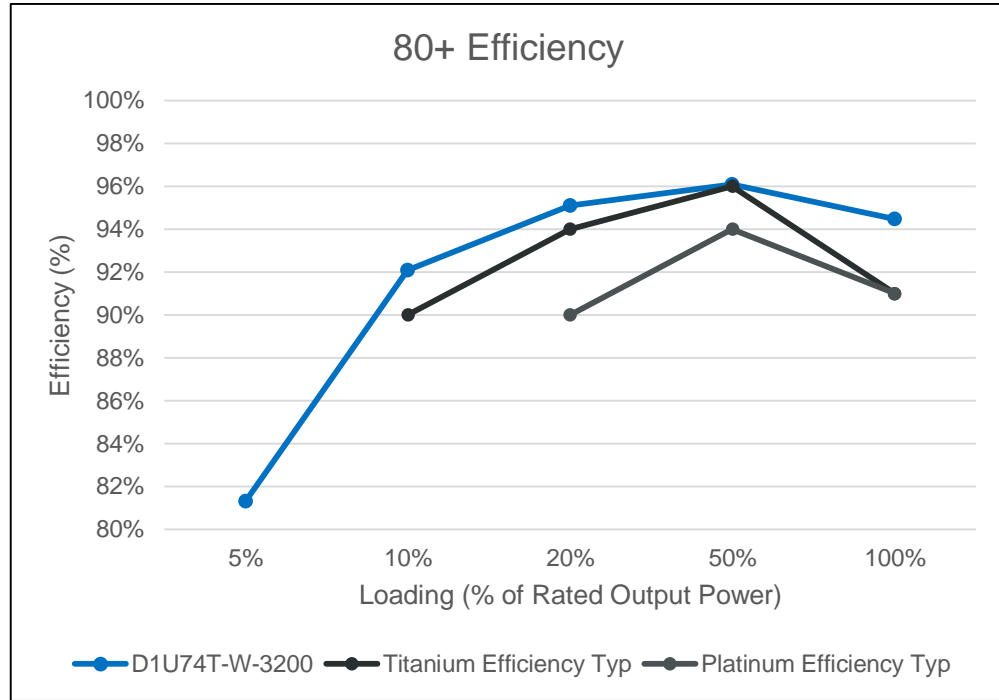
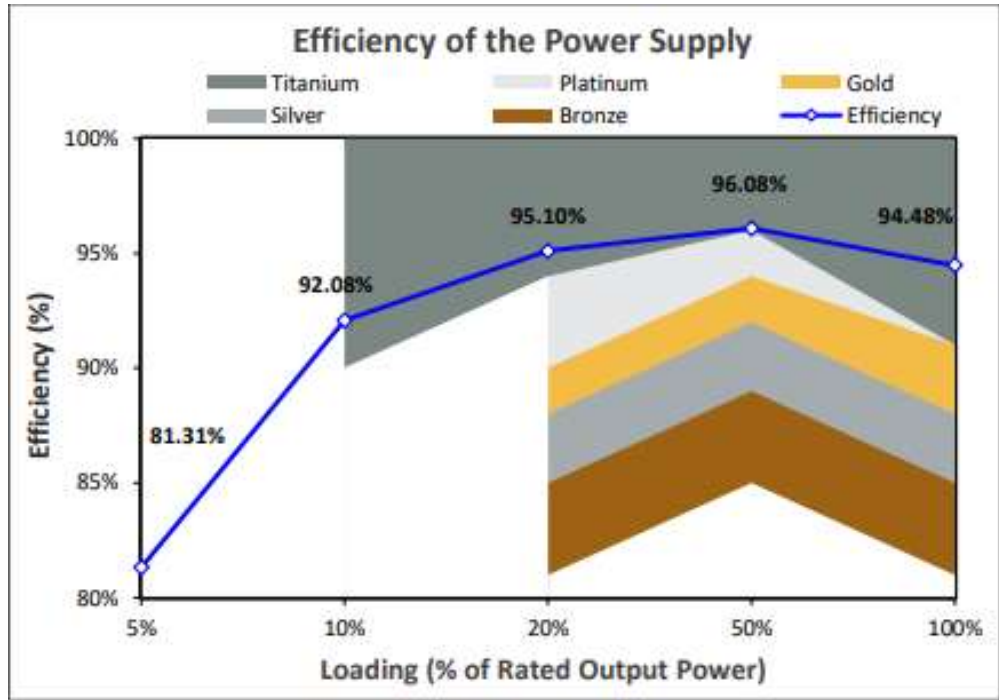


Figure 11 Cold Redundancy 1+1 Functional Block Diagram

# 80+ Efficiency

Best in Class – Titanium Efficiency



# Product Availability

- Sample Availability: Now
- Production Availability: Now
- Minimum Order Quantity: 105u
- Lead time: 36 Weeks
- Suggested Resale Price: \$671.16 at 500u



Scan for Datasheet

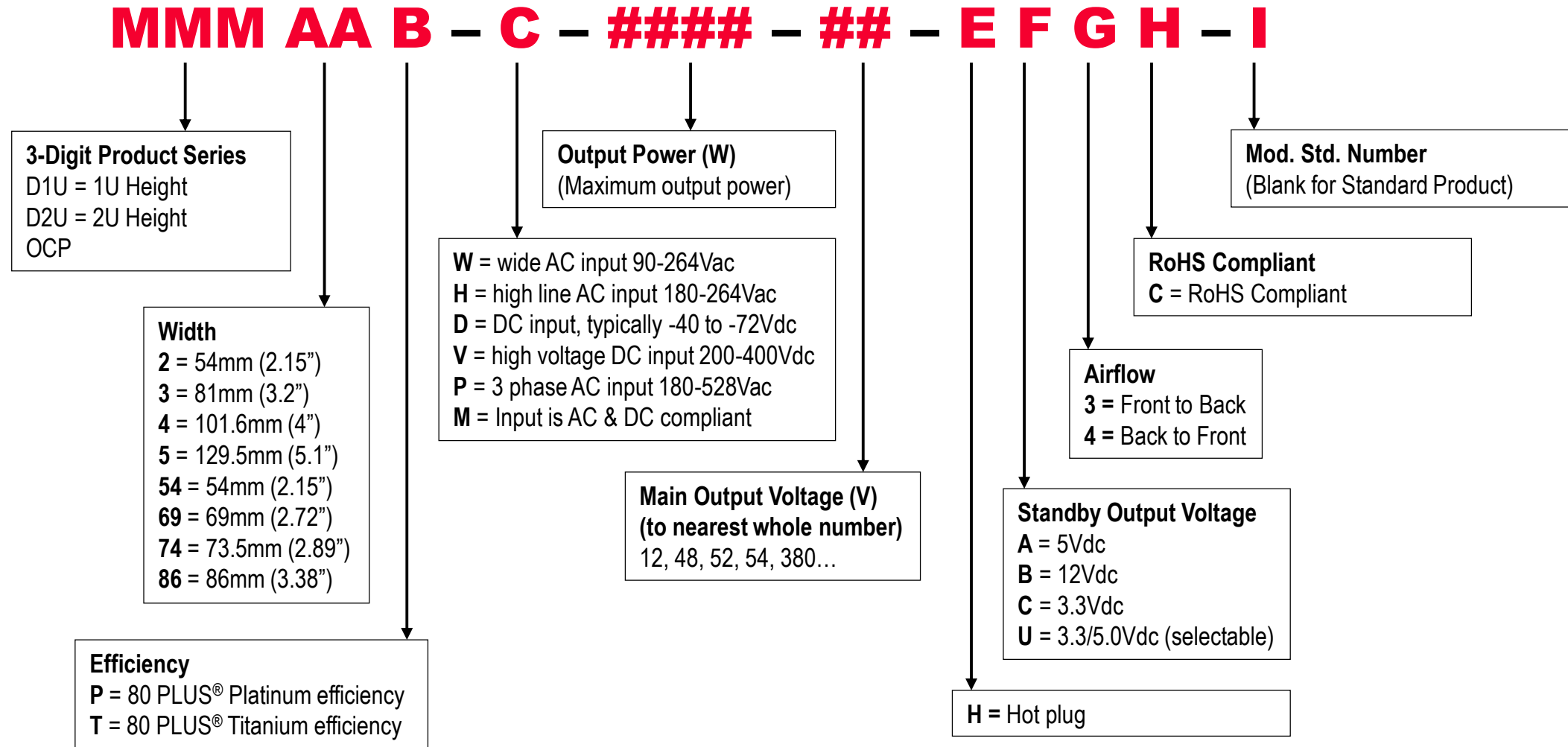
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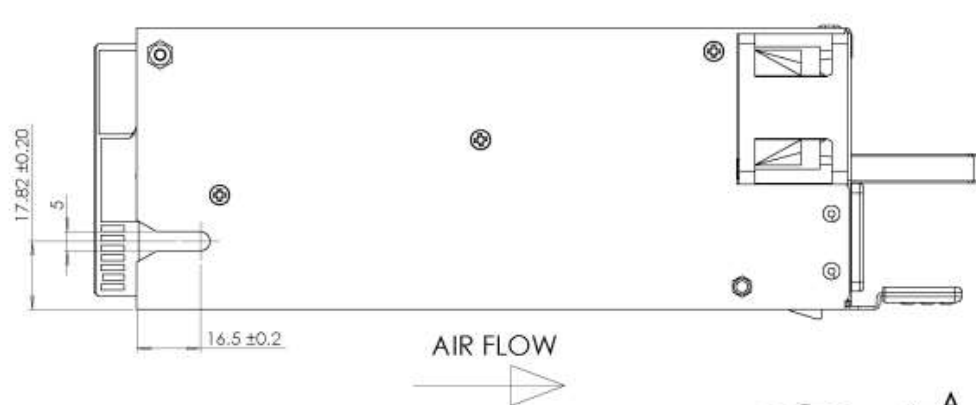
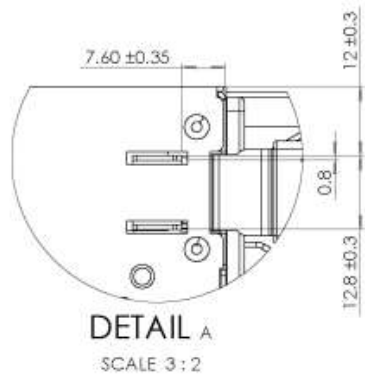
Limited Disclosure

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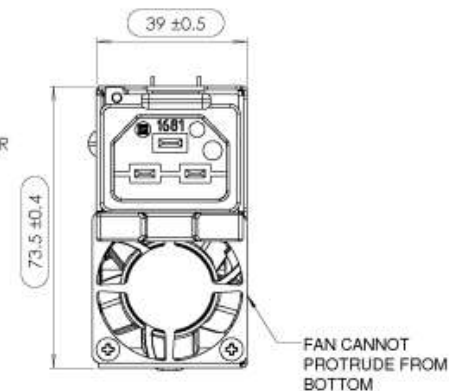
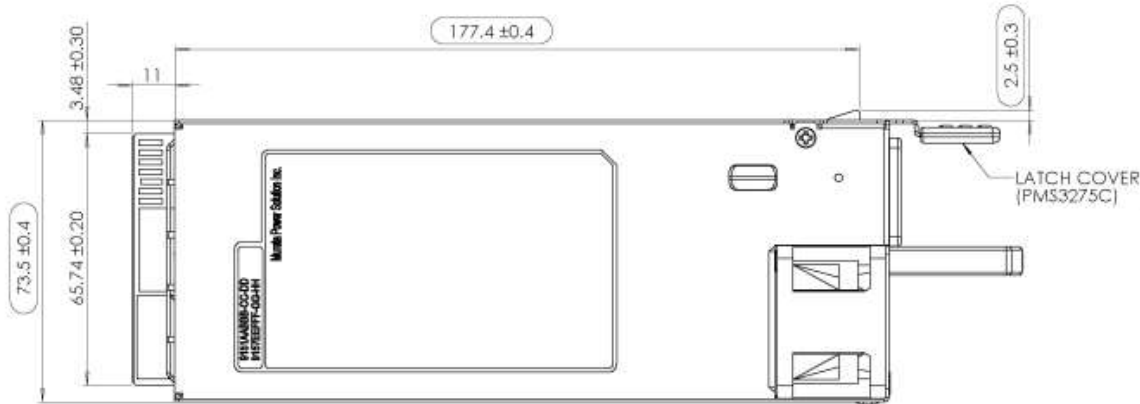
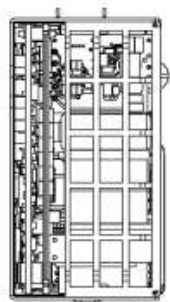
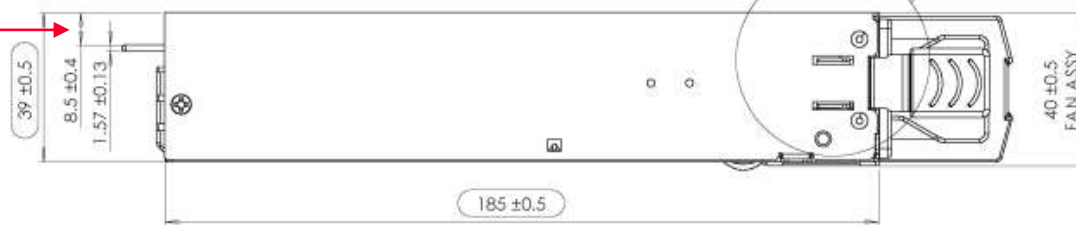
# FEP Standard Model Numbering



# Dimension & Connector



CRPS compliant connection alignment height of 8.5mm



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