

M3PHV

Military Grade Mercury Flex Shelf



Astrodyne TDI's 22.8kW Power System provides Military Grade DC power for air, land, and sea-based defense applications. Housed in a compact 19-inch rack mountable chassis, MercuryFlex sub-modules assure reliability for critical applications. Assemblies can be connected in parallel for increased power, servicing higher power needs. This modular approach with flexible outputs provides ultimate flexibility and ease of maintenance.

Main Characteristics:

- Meets
 - MIL-STD-810G
 - MIL-STD-1399/300B
 - MIL-STD-461/464
- Flexible Output supports multiple configurations
- Programmable over voltage & over current protection
- Front panel circuit breaker
- 6U, 19in rack mount

BENEFITS

Reduced System Complexity and Time to Market
Wide range of models with fully adjustable outputs. Multiple control modes provide ultimate application flexibility.

High Reliability for Critical Applications
Astrodyne TDI's comprehensive reliability assurance processes, including design to the rigorous requirements of NAVSO P3641A, HALT, DFMEA and our unique Highly Accelerated Stress Screening (HASS) on 100% of production units, assure the ultimate in unit reliability and performance.

High Power Density
Up to 22.8kW power in a 6U high, 19" rack space.

FEATURES

Three Phase AC Input
350VAC – 528VAC, three phase delta

Wide Range Outputs
125V (10V-125V)
250V (10V-250V)
450V (15V-450V)

Up to 22.8kW power
Constant voltage or constant current operating modes

Controls:
Industry standard analog controls
CAN-BUS interface and controls
Ethernet (ModBus TCP) controls

Front Panel Circuit Breaker

Variable Speed Fan Control
Minimizes audible noise and maximizes fan life

Astrodyne TDI
Now you have power.

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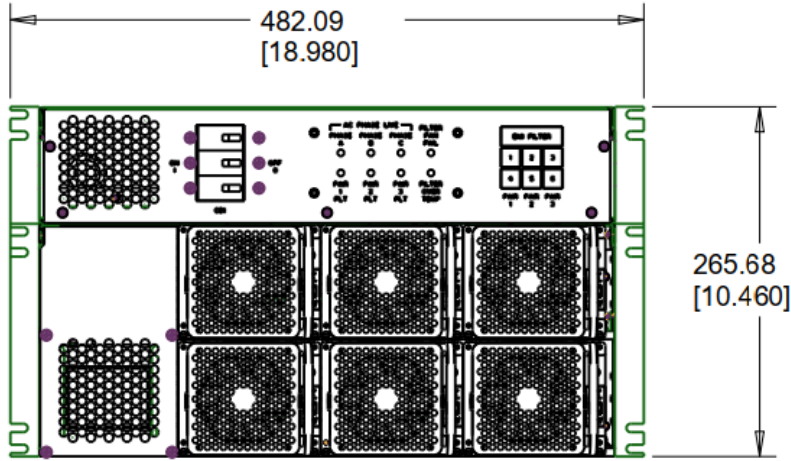
PARAMETER	SYSTEM
Input AC	350 – 528VAC, 3-phase, 4-wire input
AC Frequency	57-63 Hz
Output Power	22, 800W
Outputs, DC (Options)	125V (10V-125V) at I up to 207A 250V (10V-250V) at I up to 105A 450V (15V-450V) at I up to 60A
Power Factor	.97
Efficiency	93% at full load
Ripple/Noise	<1% p-p of Voutmax
Load Regulation	<2% of Vout Max from no load to full load (droop load share)
Line Regulation	<0.25% of operating output voltage
Hold Up Time	18mS
Protection Features	Front Panel Circuit Breaker Output Over-Voltage: Shutdown at 120% Maximum Output Voltage, Recycle AC Output Over current Protection: Automatic electronic current limiting Over-Temperature: Over temperature shutdown with auto recovery
Visual Indicators	AC Available: Front Panel LED AC On: Front Panel LED Module DC Output Good: Front Panel LED on PS Modules Programmable Output OV and Output OC
Operating Temperature	-20 to +55°C
Storage/Transportation	-40 to +70°C
Humidity	5% to 95%RH, non condensing
Connections	Amphenol Industrial Circular MIL Spec Connector
Environmental Regulations	Complies to MIL-STD-810G
Harmonics	Complies to MIL-STD-461/-464
Input Power Quality	Complies to MIL-STD-1399 300B
Dimensions	Shelf : 6U x 22" x 19" (Rack mountable)
Weight	95lbs
Cooling	Forced Air Cooling, variable speed fans



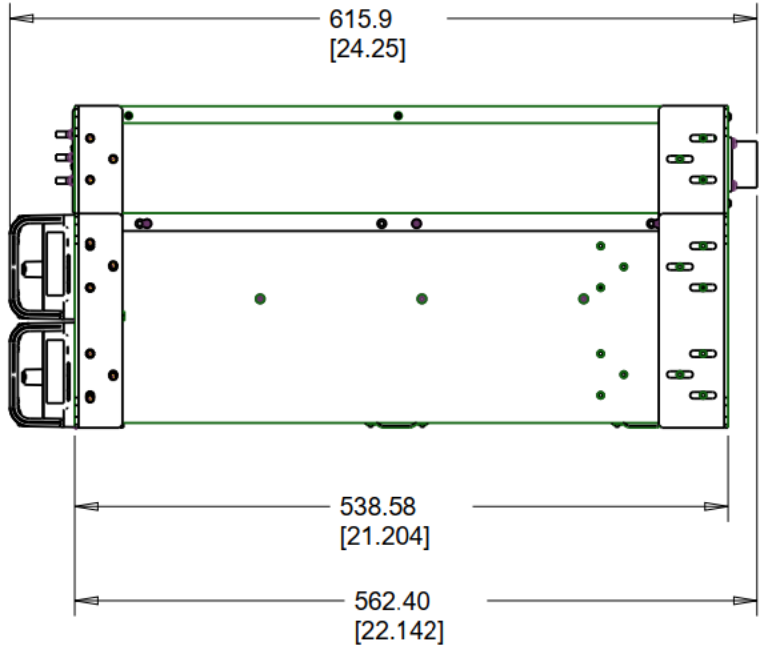
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Module Dimensions:



Front View



Side View