



Providing high operating efficiency along with excellent reliability, compact size, and easy maintainability; LiquaBlade™ power supplies are the ideal choice for high power DC systems in industrial and military applications. The converter features automatic load sharing and international power input.

Agency/Compliance:

- EN61000-4-4 1995 Electrical Fast Transient/Burst -Severity Level 3
- EN61000-4-5 1995 Surge Severity Level 4
- SEMI F47-0706 Criteria A (Operating at less than 11kW Load)
- EMI: Designed to meet CISPR 11 Class A Group 1 2004 with external filter (consult factory)
- UL 60950-1, 2nd Edition
- EN 60950-1 / A12:2011
- IEC 60950-1, 2nd Edition

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 16.5kW power in a 1U high, 19" rack space.

FEATURES

- SEMI-F47
- DC Outputs Options: 0-60V, 0-120V, 0-180V,0-500V (Adjustable)
- Alarm Outputs
- CanBus Controls
- Constant Voltage / Constant Current / Constant Power Control Modes
- High Efficiency: 92% power conversion efficiency
- Liquid Cooled Water, DI Water, WEG compatible
- Blind Mate/Hot Swappable
- High Reliability: 100% HASS Tested
- 1U / 19" Rack Compatible
- Parallel / Series compatible
- Designed to NAVSO P-3641A
- Full PFC High Power Factor -
- Low Input Current THD



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| PART NUMBER | DESCRIPTION |
|-----------------|--|
| T100103091-1-LF | RECTIFIER, 0-60V, 0-360A, 16.5kW, L-Droop CS |
| T100108057-1-LF | RECTIFIER, 0-120V, 0-180A, 16.5kW, L-Droop CS |
| T100104286-1-LF | RECTIFIER, 0-180V, 0-120A, 16.5kW, Droop CS |
| T100117293-1-LF | RECTIFIER, 0-500V, 0-43.5A, 16.5kW, L-Droop CS |
| T100103270-LF | SHELF, LiquaBlade |

PARAMETER

Input AC 380-480 VAC, three phase

AC Frequency 50/60 Hz
Max Input Current 31A

Power Factor >.93 at full power

Outputs, DC 0-60V, 0-120V, 0-180V, 0-500V

(For fixed output options contact factory)

Output Power 16.5kW Maximum

Efficiency >92%

Ripple/Noise Less than 300mVpk-pk with 20Mhz bandwidth

Line Regulation +1% of output voltage

Protection Features Output Over Voltage Protection: Power Supply will latch off.

Output Over Current Protection: Automatic electronic current limit circuitry.

Over Temperature Protection: Unit shuts down if temperatures exceed safe limits. Unit will

automatically power back on after cool down.

Visual Indicators Front panel LED

Operating Temp. +5 to +50°C

Storage Temp. -40 to +85°C

Humidity 0% to 95% non-condensing

Isolation Input to Output: 3000Vac or 4242VDC

Input to Ground: 2164Vac or 3060VDC

Output to Ground: 1000Vdc

Connections AC Input: Phoenix Contact Terminal Block

DC Output: 5/8" Stud Signals: CAN BUS: RJ11

RS-232: DB9

Harmonics Meets IEC61000-3-4 1998 Emissions of Harmonic Currents

Dimensions (inches) 1.72" x 19" x 31.2" (1U)

Cooling Liquid Cooling

Nominal: 2 GPM

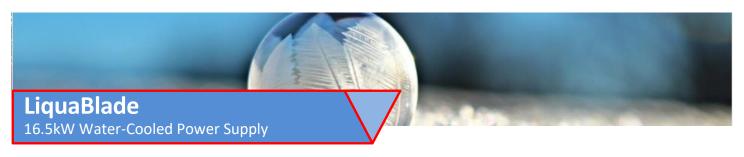
Warranty 1 Year



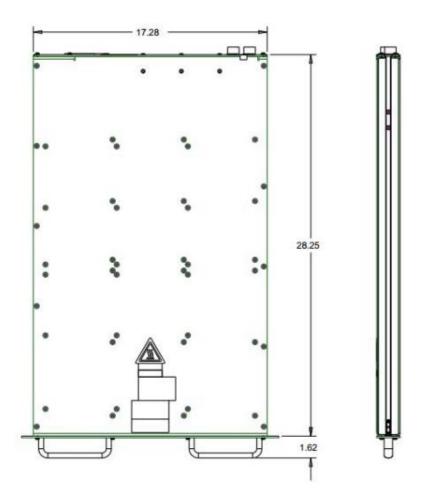
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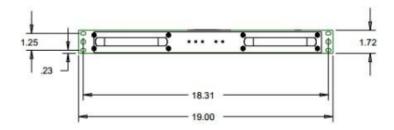




Module and Shelf Outline:





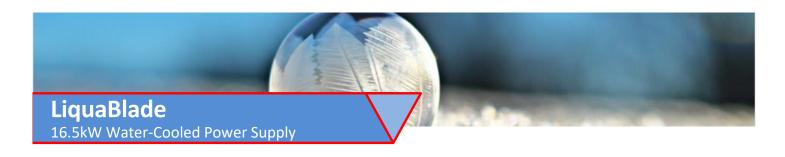




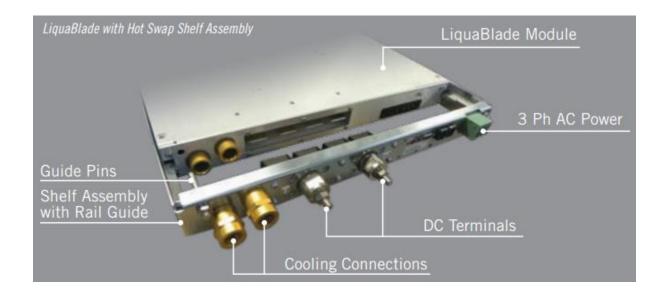
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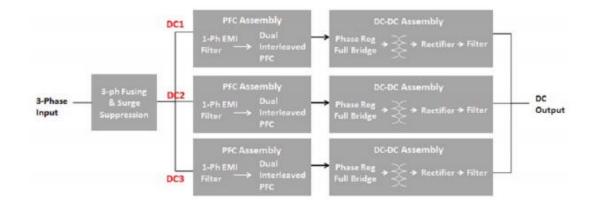




Module to Shelf Connection:



Block Diagrams:





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