

AstrodyneTDI's PowerNode 10kW Power System provides industrial grade DC power for process power, semiconductor manufacturing, medical imaging, test and burn in, and other applications. Housed in a compact 2U high chassis, Mercury Flex sub-modules assure reliability for critical applications. PowerNode assemblies can be connected in parallel for increased power, providing ultimate flexibility for modern processes.

Main Characteristics:

- Front panel Touch Panel LCD Display
- Remote User Interface
- Front panel mounted Circuit Breaker
- N+1 redundancy
- CE Mark/Power Supply Modules NRTL (UL Recognized) approved and marked.
- Blind Mate Field Replaceable Modules for low MTTR
- Constant Voltage, Constant Current, Constant Power
 mode with automatic cross over

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 10kW power in a 2U high, 19" rack space.

FEATURES

Three Phase ACInput 180VAC – 253VAC, three phase delta

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

Up to 10kW power Constant voltage, current, or power operating modes

Controls:

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

Variable Speed Fan Control Minimizes audible noise and maximizes fan life



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MODEL NUMBER	PART NUMBER	DESCRIPTION
SPS6075-LF	T100112517-LF	SYSTEM, 10KW MERCURY FLEX POWER SYSTEM
		*For other options please contact the factory

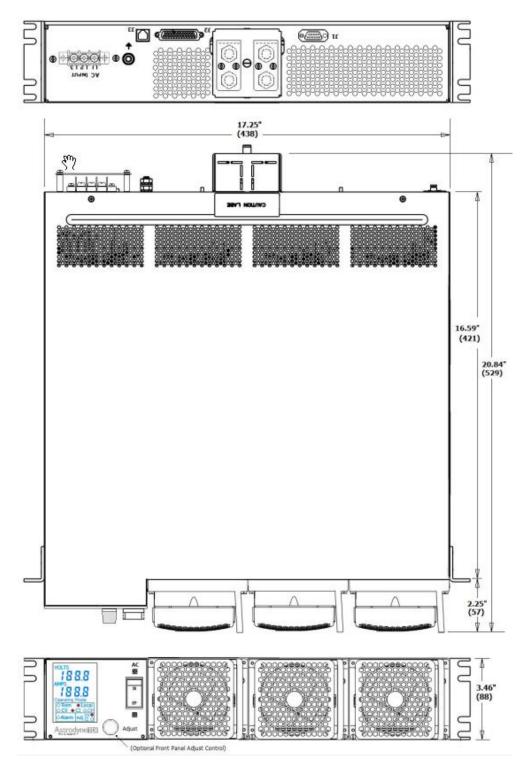
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POWERNODE

	TOTTERRODE	
Input AC	180-253VAC, three phase delta	
AC Frequency	47-63Hz	
Max Input Current	36A for 1800VAC at 10kW output power	
Power Factor	>.98 / IEC61000-2 Compliant	
Outputs, DC	125V (10V-125V) @ I up to 103.5A	
	250V (15V-450V) @ I up to 52.5A	
	450V (10V-250V) @ I up to 30A	
Output Power	10,000 W Maximum	
Efficiency	>93%	
Ripple/Noise	Less than 4Vpk-pk, 200mV(rms)	
Load Regulation	2% (8V) droop from no load to full load	
Protection Features	Front Panel Circuit Breaker	
Visual Indicators	LED's on individual modules	
	Front panel LCD display	
Operating Temperature	-30 to +55°C (full rated)	
Storage/Transportation	-40 to +85°C	
Humidity	0% to 95% non-condensing	
Isolation	Input to Output: 3000 Vrms	
	Input to Ground: 1625 Vrms	
	Output to Ground: 1674 Vrms	
Connections	AC Input: Terminal Block	
	DC Output: Heavy Duty Bus Bars	
	Analog Control: 25 pin DSUB	
	Ethernet RJ45	
	CAN Bus: RJ11	
EMC	Radiated and conducted emissions meet FCC Part 15, Subpart A class A, and EN55022, Class A	
Dimensions (inches)	17.25″ x 20.84″ x 3.46″ 25lbs	
Safety	UL/IEC/EN 60950-1	
Cooling	Internal Variable Speed Fan, front airdraw	
Warranty	1 Year	
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Module Outline:

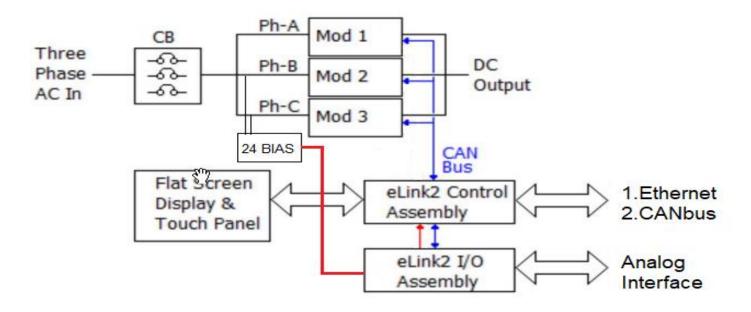




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Block Diagram:



Connections:

