

HERMESFLEX

2.2KW AIR-COOLED POWER SUPPLY

Astrodyne TDI's 2.2 kW HermesFlex™ is the perfect rectifier solution for applications requiring a digitally controlled industrial or medical power supply with a universal 90-264VAC, 50/60Hz single-phase input and a wide-range DC output. For higher power applications, HermesFlex™ rectifiers can be easily connected in parallel current-sharing groups with the aid of a three-module shelf assembly, enabling 6.6kW per 1U of 19" rack space. HeremesFlex™ is certified to IEC60601 with 2 MOPP isolation and BF leakage current.



MAIN CHARACTERISTICS:

- ✓ Certified to IEC60601, Type BF, 2x MOPP output isolation: Mention both IEC62368 and IEC60601
- ✓ Programmable Outputs/ variable or fixed mode: Adjustable AND Fixed mode operation
- ✓ Multiple Operating modes: CV, CC, CP
- ✓ Scalable product: Parallels easily with a Shelf
- ✓ Blind-mate/hot-swap and stand-alone versions
- ✓ Unity power Factor with Active PFC

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.

FEATURES

UNIVERSAL AC INPUT

90-264Vac

WIDE RANGE OUTPUTS

12V (1V-12V)
28V (3V-28V)
56V (5V-56V)
85V (5V-85V)
125V (10V-125V)
180V (10V-180V)
250V (10V-250V)
350V (10V-350V)
500V (15V-500V)
1000V (80V-1000V)

Up to 2.2KW power per module
Up to 100A current per module (12V model)

ISOLATED AUXILIARY OUTPUT: 12VDC/10W

CONTROLS:

High-Speed CANbus

MOUNTING:

Blind Mate Version: Front plug-in into the shelf
Hard Wired Version: 4 fixing points on the chassis

PARALLEL AND REDUNDANT OPERATION

Automatic current sharing, output fault isolation device, and hot-swap compatible

VARIABLE SPEED FAN CONTROL

Minimizes audible noise and maximizes fan life



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PARAMETERS

HERMESFLEX

Input Voltage	90-264VAC, Single-Phase or 120-380VDC
AC Frequency	47-63Hz
Max Input Current	16ARMS at 90Vac and 12ARMS at 120Vdc
Power Factor	> 0.97
Outputs, DC	Main Output: (Ten standard models) 12V, 28V, 56V, 85V, 125V, 180V, 250V, 350V, 500V, 1000V
Output Power	For 12V Model 1,200W Continuous when operating from 90-264VAC or 120-380VDC Input
	For 28V, 56V, 85V, 125V, 180V, 250V, 350V, 500V Models 1,200W Continuous when operating from 90-175VAC or 120-250VDC Input 2,200W Continuous when operating from 176-264VAC or 250-380VDC Input
	For 1000V Model 1,200W Continuous when operating from 90-175VAC or 120-250VDC Input 2,000W Continuous when operating from 176-264VAC or 250-380VDC Input
Efficiency	> 91%
Ripple/Noise	<1% pk-pk of Vo(max)
Line Regulation	Less than 2% of Vo(max) from no load to full load
Electronic Alarm	Unit provides digital alarm signals and controls via CAN interface
Visual Indicators	Output OK and Summary Fault Front panel LEDs
Operating Temperature	-30 to +55°C (full rated)
Storage/Transportation	-40 to +85°C
Humidity	0% to 95% non-condensing
Isolation	Input to Output: 4,000VAC (2 MOPP) Input to Ground: 2,500 VDC Output to Ground: 1,500VAC / 2,121VDC (12, 28, 56V models); 2,500VDC (85V, 125V, 180V, 250V, 350V, 500V); 2414VAC / 3414VDC (1000V models) Output to Signals: N/A (12, 28, 56V models); 4,000VDC (85V, 125V, 180V); 3000VAC / 4230VDC (250V, 350V); 4141VAC / 6241VDC (500V); 5828VAC / 8243VDC (1000V)
Connections	Blind Mate Option: FCI Power Blade Hard Wired Option: ✓ AC Input- Heavy Duty no-lug Terminal Block ✓ DC Output- Heavy Duty Bus Bar/Stud ✓ Control: Dual Row, Right-Angle, 10 Circuit, Molex 0901323210 or equivalent
Harmonics	Compliant to EN61000-3-2 Electromagnetic compatibility, Limits for harmonic current emissions
Dimensions (inches)	Blind Mate Version: 5.6"×1.59"×12.21" Hard Wired Version: 5.6"×1.59"×12.55" 3.5lbs



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Safety	UL/IEC/EN 62368-1 (2nd Ed) UL/IEC/EN 60601-1 (3rd Ed.)
Cooling	Internal Variable Speed Fan, front air draw
Warranty	2 Years

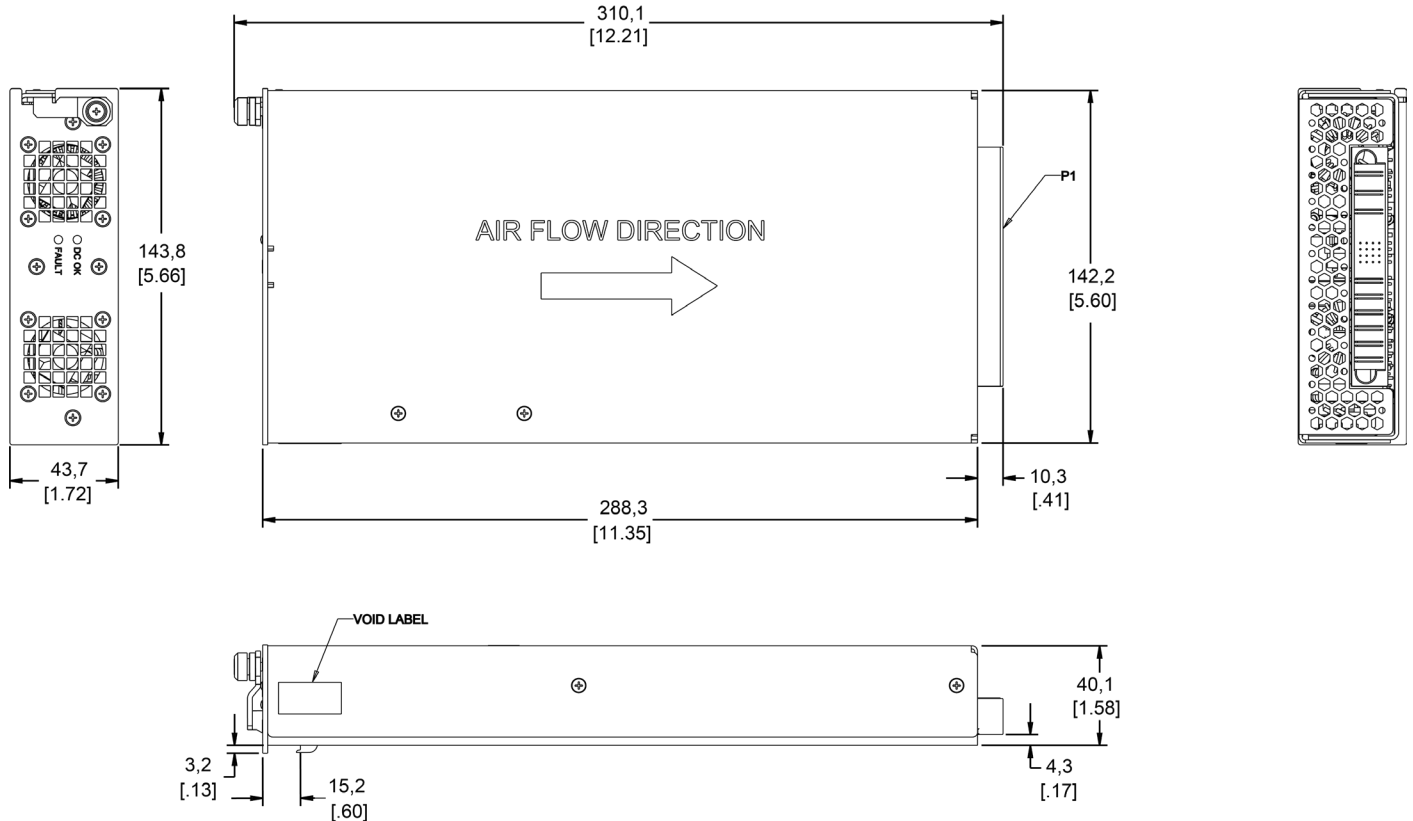
OUTPUT RATING

Model	Input Voltage					
	90-175VAC or 120-250VDC			176-264VAC or 250-380VDC		
	Min Io (A)	Max Io (A)	Max Po (W)	Min Io (A)	Max Io (A)	Max Po (W)
12V	10	105	1200	10	105	1200
28V	8	80	1200	8	80	2200
56V	4	40	1200	4	40	2200
85V	2.6	26	1200	2.6	26	2200
125V	1.8	18	1200	1.8	18	2200
180V	1.25	12.5	1200	1.25	12.5	2200
250V	0.9	9	1200	0.9	9	2200
350V	0.7	7	1200	0.7	7	2200
500V	0.45	4.5	1200	0.45	4.5	2200
1000V	0.25	2.25	1200	0.25	2.25	2000

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MODULE OUTLINE (BLIND MATE VERSION):



PART NUMBER

DESCRIPTION

T100113626-F012D00LF	RECTIFIER,1.2KW 1U 0-12V 100A DROOP, BM
T100113626-F028D00LF	RECTIFIER, 2.2KW 1U 0-28V 80A, 2MOPP/BF, ROHS
T100113626-F056D00LF	RECTIFIER, 2.2KW 1U 0-56V 40A, 2MOPP/BF, ROHS
T100113626-F085D00LF	RECTIFIER, 2.2KW 1U 0-85V 26A, 2MOPP/BF, ROHS
T100113626-F125D00LF	RECTIFIER, 2.2KW 1U 0-125V 18A, 2MOPP/BF, ROHS
T100113626-F180D00LF	RECTIFIER, 2.2KW 1U 0-180V 12.5A, 2MOPP/BF, ROHS
T100113626-F250D00LF	RECTIFIER, 2.2KW 1U 0-250V 9A, 2MOPP/BF, ROHS
T100113626-F350D00LF	RECTIFIER, 2.2KW 1U 0-350V 7A, 2MOPP/BF, ROHS
T100113626-F500D00LF	RECTIFIER, 2.2KW 1U 0-500V 4.5A, 2MOPP/BF, ROHS
T100113626-F1K0D00LF	RECTIFIER,2.2KW 1U 0-1000V 2.2A DROOP, BM

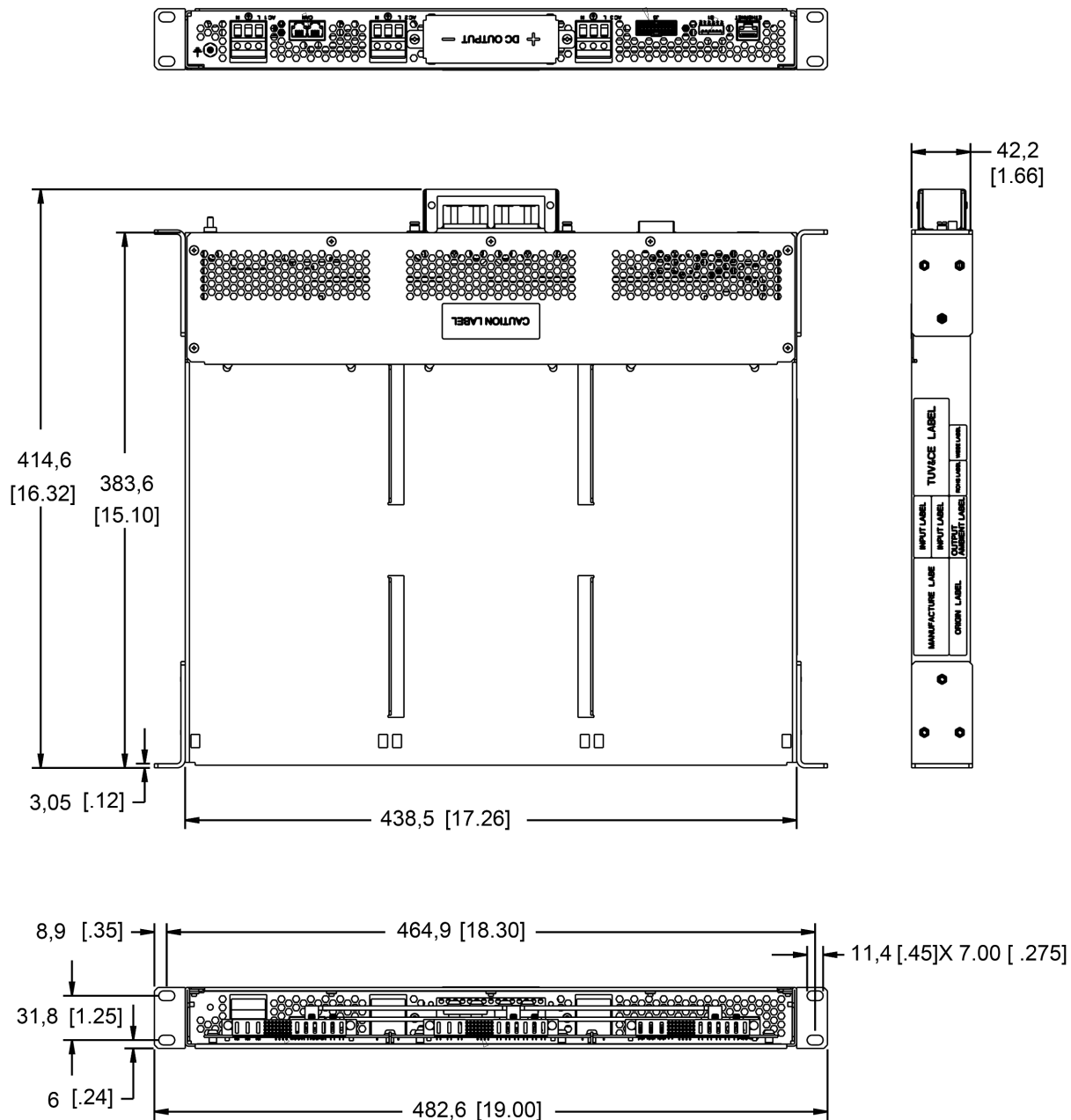
*for additional output voltages please contact the factory



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SHELF OUTLINE



PART NUMBER

DESCRIPTION

T100116243-LF

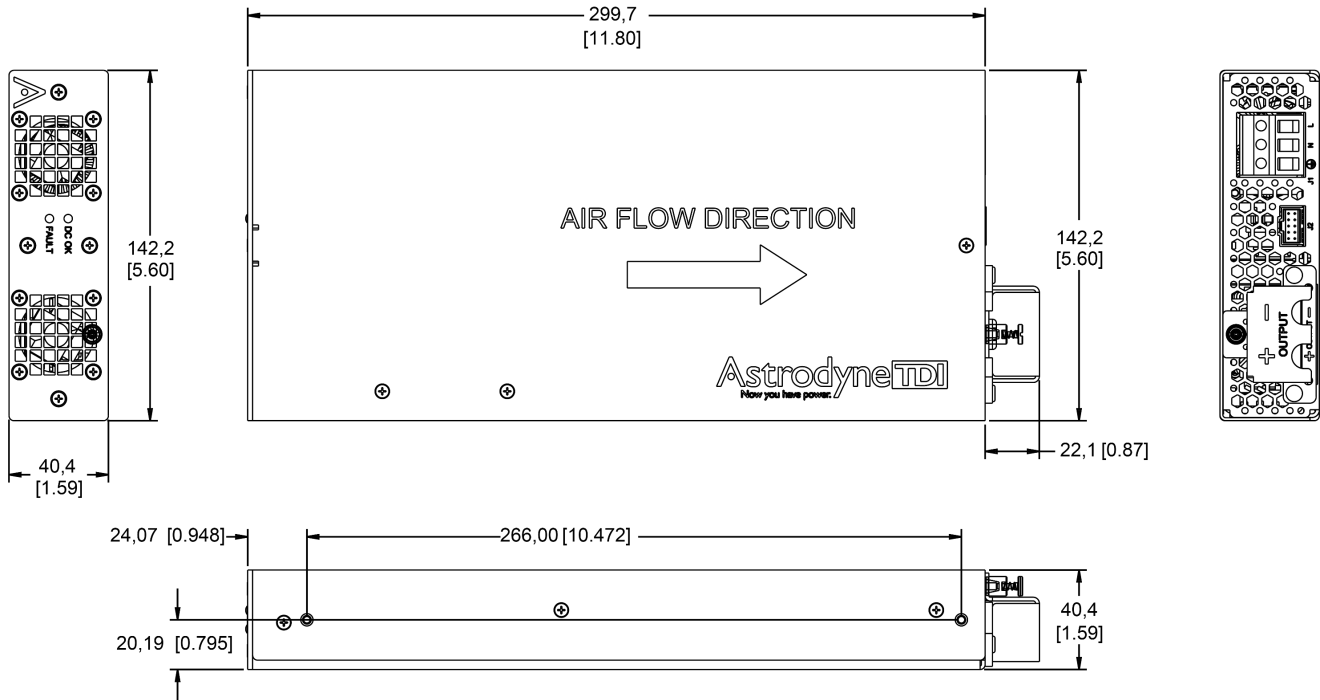
SHELF, HermesFlex

*for additional output voltages please contact the factory

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MODULE OUTLINE (HARD WIRED VERSION):



PART NUMBER

DESCRIPTION

T100113627-F028D00LF	RECTIFIER, 2.2KW 1U 0-28V 80A, 2MOPP/BF, ROHS, HW
T100113627-F056D00LF	RECTIFIER, 2.2KW 1U 0-56V 40A, 2MOPP/BF, ROHS, HW
T100113627-F085D00LF	RECTIFIER, 2.2KW 1U 0-85V 26A, 2MOPP/BF, ROHS, HW
T100113627-F125D00LF	RECTIFIER, 2.2KW 1U 0-125V 18A, 2MOPP/BF, ROHS, HW
T100113627-F180D00LF	RECTIFIER, 2.2KW 1U 0-180V 12.5A, 2MOPP/BF, ROHS, HW
T100113627-F250D00LF	RECTIFIER, 2.2KW 1U 0-250VDC 9A, 2MOPP/BF, ROHS, HW
T100113627-F350D00LF	RECTIFIER, 2.2KW 1U 0-350VDC 7A, 2MOPP/BF, ROHS, HW
T100113627-F500D00LF	RECTIFIER, 2.2KW 1U 0-500VDC 4.5A, 2MOPP/BF, ROHS, HW

*for additional output voltages please contact the factory