

# ACFE (AC FRONT END)

## 440VAC, 3-PHASE AC INPUT, 2.2KW, 360VDC POWER MODULE

The ACFE module provides a fully isolated output for 360VDC. It can power any of Astrodyne TDI's standard 100-240VAC converters from a 380-480VAC, 3-phase power line. For applications that require higher power, you can connect the ACFE module in parallel current-sharing groups using any standard power solution module in a shelf assembly. Paired with the HermesFlex this configuration can enable 6.6kW per 1U of 19" rack space.



### MAIN CHARACTERISTICS:

- ✓ Constant voltage level across its output terminals, regardless of the electrical load
- ✓ Blind mate connectors guide themselves into the correct mating position
- ✓ SEMI F47 compliance to address voltage sag immunity requirements

### 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

#### THREE-PHASE AC INPUT

Three-phase 380 – 480VAC, 50 – 60Hz

#### FIXED OUTPUT

360V Nominal  
Up to 2.2KW power per module

#### CONTROLS:

AC Fault and General Fault Discrete Alarms

#### 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 compatibility.

### APPLICATIONS

- ✓ UV curing & heating
- ✓ Burn-in equipment
- ✓ Lasers
- ✓ Motor controllers
- ✓ Industrial printing (2D & 3D)
- ✓ Test equipment

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### PARAMETERS

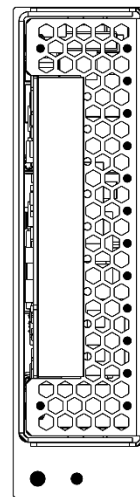
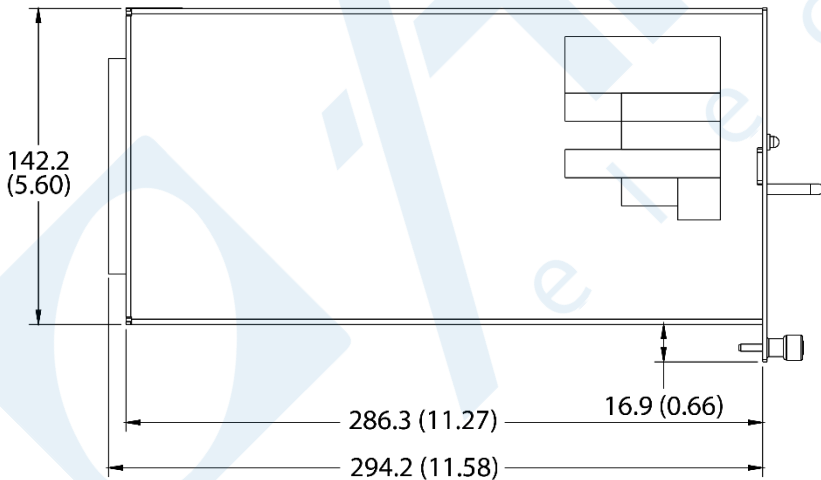
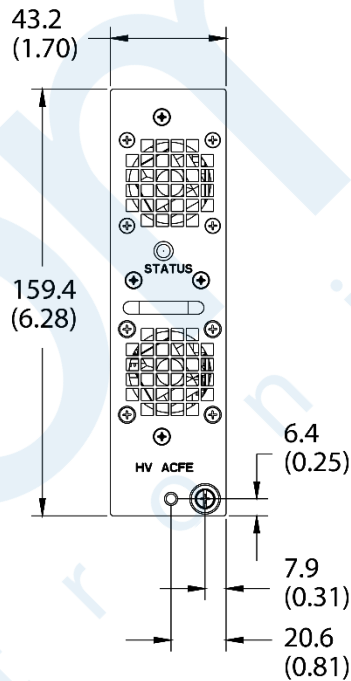
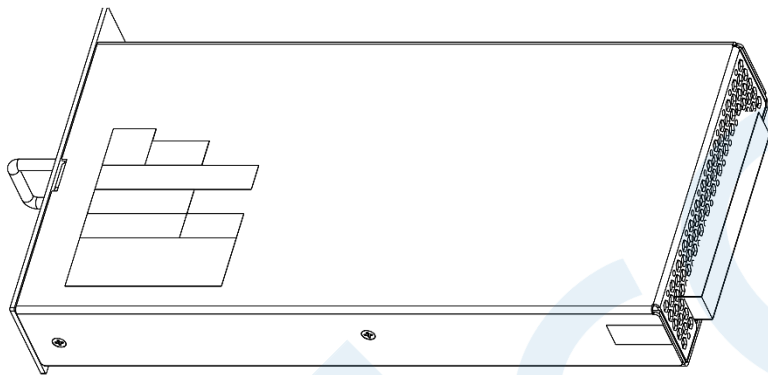
### AC FRONT END

<b>Input Voltage</b>	Three-phase 380 – 480VAC
<b>AC Frequency</b>	50 – 60Hz, 47-63Hz
<b>Max Input Current</b>	10A at 480VAC
<b>Power Factor</b>	> 0.95
<b>Outputs, DC</b>	360VDC
<b>Output Power</b>	2,200W Continuous
<b>Efficiency</b>	>91%
<b>Ripple/Noise</b>	<1% pk-pk of Vo(max)
<b>Line Regulation</b>	Less than 2% of Vo(max) from no load to full load
<b>Electronic Alarm</b>	AC OK, Output OK
<b>Visual Indicators</b>	Front panel LEDs
<b>Operating Temperature</b>	-30 to +55°C (full rated)
<b>Storage/Transportation</b>	-40 to +85°C
<b>Humidity</b>	0% to 95% non-condensing
<b>Isolation</b>	Input to Output: 4,000VAC Input to Earth Ground: 4,000VAC Output to Earth Ground: 1000VAC
<b>Connections</b>	Blind Mate Option: FCI Power Blade
<b>Dimensions (inches)</b>	Blind Mate Version: 5.6"×1.70"×11.58" 3.5lbs
<b>Safety</b>	UL/IEC/EN 62368-1 (2nd Ed)
<b>Cooling</b>	Internal Fan, front air draw
<b>Warranty</b>	1 Year

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MODULE OUTLINE (BLIND MATE VERSION):



PART NUMBER

DESCRIPTION

ACFE-2200-360-00

AC FRONT END, 280-480VAC 3-PHASE, 360 VDC OUT, 2.2KW

\*for additional output voltages please contact the factory