

4,000VA  
15-1,200 Hz

1Ø → 0-135V<sub>L-N</sub>  
2Ø → 0-270V<sub>L-L</sub>



**Standard Features:**

- 1 phase or split phase Selectable Output from front panel or bus command.
- 15 to 1,200 Hz. Operation – 5,000 Hz small signal bandwidth.
- Precision Voltage Programming – 0.05% with Continuous Self-Calibration (CSC) engaged.
- True-RMS metering of volts, amps, and power.
- GPIB (IEEE-488.2) or RS-232 Interface.
- Waveform Library – Arbitrary Waveform Generator.
- 99 stored programs with associated transients for static and dynamic test applications.
- UPC Studio Software Suite.
- UPC Interactive LabVIEW™ Libraries.

**Available Options:**

- T versions include external transformer assembly P/N 134350 for higher voltage ranges
- Rack enclosures with caster base
- Programmable Output Impedance
- Harmonic Analysis and Waveform Synthesis
- Peak Inrush Capture and Waveform Analysis
- UPC Test Manager Software Application

**UPC Manager Software Suite**  
*Master the Power of the Wave!*

UPC Manager Software gives you the tools necessary to quickly and easily operate your AC Power Source. With our graphical interface control all areas of your AC Power Source testing with simple presets, user prompts, test sequences, test plans and custom reports.



**Model 140ASX**

As a member of Pacific's ASX-Series family of high performance AC Power Sources, the 140ASX offers the low acoustic noise, ease of installation, and maximum power density found in all of Pacific's high frequency, pulse width modulated AC Power Sources. Control and operational features provide a high degree of versatility and ease for applications ranging from simple, manually controlled frequency conversion to harmonic testing and sophisticated bus programmable transient simulation.

**AC TEST POWER**

The 140ASX is equipped with a powerful micro-controller with the ability to operate as a fully integrated test system. It supplies a variety of power conditions and transients to the device under test while metering and analyzing all output performance parameters.

**FREQUENCY/VOLTAGE CONVERSION**

The 140ASX is an excellent source of stable AC Voltage over the frequency range of 15 to 1,200 Hz. The output frequency is quartz-crystal stabilized. Output voltages up to 270V<sub>L-L</sub> are available on the 140ASX model and up to 600V<sub>L-L</sub> on the 140ASXT model.

**PHASE CONVERSION**

With the ability to provide either single or two phase output, the 140ASX is an ideal choice to convert three-phase line voltage into precisely controlled split (two-phase) or single-phase output power.

**UPC SERIES CONTROLLER**

Three controller models are available offering both manual and programmable control. All controllers provide manual operation from the front panel. Programmable Controllers may be operated from the front panel or from a remote interface via RS 232 or GPIB.

**The Leader in AC Power Technology**

An early pioneer in the development solid-state power conversion equipment, Pacific Power Source continues to develop, manufacture, and market both linear and high-performance PWM AC Power Sources. Pacific's reputation as a market and technology leader is best demonstrated by its continuing investments in both research and development and world-wide customer support. With corporate owned offices in the United States, Germany, the United Kingdom, and China, local personalized support is always available.



THE POWER OF EXPERTISE



FREQUENCY CONVERSION

AEROSPACE

R & D

MILITARY

MANUFACTURING

CUSTOM

## Output Ratings

### 140ASX

Rated Power (VA) <sup>1</sup>	Coupling Mode	Form <sup>2</sup>	Output Voltage <sup>3</sup> V <sub>rms</sub> Max (L-N/L-L)	Current <sup>4</sup> (A <sub>rms</sub> )	Frequency Range	Input Power	Unit Height In/mm/U	Unit Weight (Lbs/Kg)
4000	Direct	1Ø/2Ø	135/270	32/16	15-1200	3Ø 47-65Hz	8.75/222/5U	120 /54.5

### 140ASXT

Rated Power (VA) <sup>1</sup>	Coupling Mode	Form <sup>2</sup>	Output Voltage <sup>3</sup> V <sub>rms</sub> Max (L-N/L-L)	Current <sup>4</sup> (A <sub>rms</sub> )	Frequency Range	Input Power	Unit Height In/mm/U	Unit Weight (Lbs/Kg)
4000	Direct	1Ø/2Ø	135/270	32/16	15-1200	3Ø 47-65Hz	140ASX 8.75/222/5U	140ASX 120 /54.5
	Transformer 1.5:1	1Ø/2Ø	202/404	21.3/10.7	45-1200	3Ø 47-65Hz	Transformer Module 5.25/134/3U	Transformer Module 120 /54.5
	Transformer 2.0:1	1Ø/2Ø	270/540	16/8	45-1200			
	Transformer 2.5:1	1Ø/2Ø	338/600	12.8/6.4	45-1200			

#### NOTES:

- Rated output power is based on a combination of nominal output voltage, rated current and load power factor. Values stated represent the maximum capabilities of a given model. Consult factory for assistance in determining specific unit capabilities as they might apply to your application.
- Unit is operable as single phase with dual range capability. Output voltage range and 1/2 conversions are selected by front panel or bus commands.
- V<sub>max</sub> is output voltage with nominal input and full rated load applied.
- Available current will vary with output voltage and power factor.

## ASX Power Source Specifications (PF = 1.0, V<sub>out</sub> > 25% F.S.)

Output Frequency	Line Regulation	Load Regulation (Direct coupled)	Output Distortion	Ripple and Noise	Response Time
Full Power 15-1,200Hz Direct Coupled 45-1,200 Hz Transformer Coupled	0.1% max for a ±10% line change	0.25% 15 to 400 Hz, 0.50% 400 to 1,200 Hz. Transformed Coupled 2 to 5% depending on ratio Improves to <0.1% with external sense and CSC enabled.	0.25% THD <sub>AVG</sub> 15 to 200 Hz 1.25% THD <sub>AVG</sub> 200 to 1,200 Hz	-66dB	60 msec typ. 10-90% load step

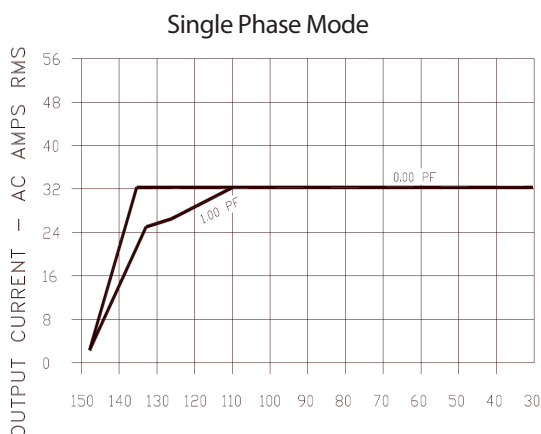
## Input Power Requirements (47-63 Hz)

Input Voltage	208V 3ØΔ ±10%	220V 3ØΔ ±10%	240V 3ØΔ ±10%	220/380V 3Ø ±10%	230/400V 3Ø ±10%	240/416V 3Ø ±10%	277/480V 3Ø ±10%
Input Current	13A <sub>rms</sub>	12A <sub>rms</sub>	11A <sub>rms</sub>	7A <sub>rms</sub>	7A <sub>rms</sub>	6.5A <sub>rms</sub>	Cost Option
Recommended Input Service	20A	20A	15A	10A	10A	10A	Contact Factory

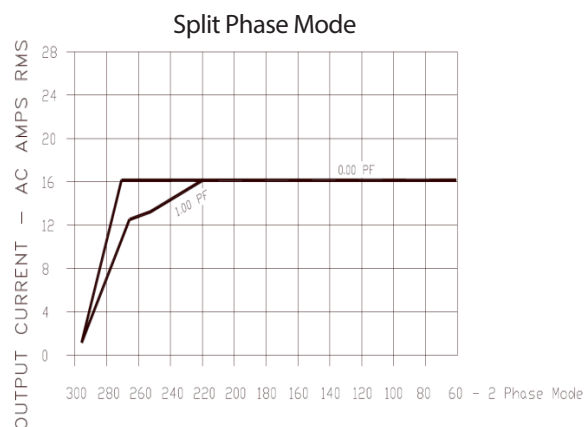
\* Power Source equipped with soft start feature. In-rush current at application of input power will not exceed recommended input service.

## Power Factor Rating Curves

Rated Continuous load current as a function of Power Factor and Output Voltage-Nominal Input Line



Short term overloads to 40A are permitted. Operating time before thermal shutdown or circuit breaker trip varies from seconds to severa; minutes depending upon line and temperature conditions.



Short term overloads to 20A are permitted. Operating time before thermal shutdown or circuit breaker trip varies from seconds to severa; minutes depending upon line and temperature conditions.



