

# EAC-STT

## 400Hz THREE PHASE AC SOURCE



POSITIVE PROBLEM SOLVING **+ =**

**This three phase power supply is built into its own freestanding cabinet and provides an output up to 15kVA per phase. Remote control of the system is provided via an analogue interface.**

A fixed output frequency of 400Hz makes the unit ideal for researching aerospace applications. The EAC-STT supplies up to 3 x 65A continuously, though usefully has a high peak current capability for testing motor type loads (3 x 195A for up to 2ms and 3 x 97A up to 3 seconds). A very fast response time of typically <1ms for a 10-90% load step change is provided. A variety of protection features are incorporated into the design including over current, over temperature and output short circuit.

- + Three Phase Output with Adjustable Voltage**
- + Front Panel Lock Out Function**
- + Very Fast Response Times**
- + High Efficiency up to 90%**
- + Galvanic Isolation**

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## FURTHER DETAILS

The input and output are also galvanically isolated from each other. Front panel functions can be locked out, to ensure that tests which require a continuously stable voltage are not accidentally compromised.

## RENTAL MODELS

### SELECTION TABLE

Part Number	Input Phases	Max Power	Output Voltage	Output Current	Dimensions [W × H × D]
EAC-STT 45T	Three	3 × 15kVA	0 - 400Vrms*	3 × 65A	600 × 1800 × 800mm

\* The value given is a phase to phase value.

## INPUT

### STANDARD FEATURES

TECHNICAL DATA	
Input Voltage Range	350 - 440Vrms
Number of Input Phases	3
Input Frequency Range	47 - 63Hz

## OUTPUT

### STANDARD FEATURES

TECHNICAL DATA	
Max Output Power	15kVA per phase
Max True Power at 0.8 Power Factor	12kW per phase
Max Continuous Current	3 × 65A
Peak Current Capability	3 × 97A <3 sec
Peak Current Capability	3 × 195 <2ms
Crest Factor	4 : 1
Voltage Range	0 - 230/400Vrms
Voltage Accuracy	<±1Vrms
Output Frequency	400Hz
Frequency Accuracy	0.001% of nominal

# GENERAL

## STANDARD FEATURES

TECHNICAL DATA	
Operating Temperature Range	0 to +40°C
Storage Temperature Range	-20 to +70°C
Distortion Factor	<2%
Response Time	Typically <1ms for 10 - 90% load change
Efficiency	Typically 90%
Front Panel Meters	4 digit for V & I [accuracy ±2%]
Analogue Interface	0 - 10Vdc [not isolated]
Protections	Over current, over temperature, output short circuit

# MECHANICAL

## STANDARD FEATURES

TECHNICAL DATA	
Case Style	Tower
Dimensions	600 × 1800 × 800mm
Weight	275kgs

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