

# EAC-PAVS

## PROGRAMMABLE AC VOLTAGE SOURCE



POSITIVE PROBLEM SOLVING **+ =**

**The EAC-PAVS is a series of programmable high power AC voltage sources. Each single phase system provides a true sinewave output as standard.**

Each power supply is built in its own freestanding cabinet. The output frequency is adjustable in the range of 45 - 105Hz. Different frequency ranges are optional, with up to 805Hz possible. An RS-232 and CAN interface are provided as standard. The high resolution TFT front panel displays a host of measurement and setting functions. Besides standard models, other nominal power levels and voltages can be user specified. Three phase and bidirectional versions are available on request.

- + Bidirectional Models Available on Request**
- + RS-232 & CAN Interfaces as Standard**
- + Extended Frequency Range Possible**
- + Built in Freestanding Cabinet**
- + TFT Front Panel Screen**
- + Systems up to 200kVA**

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## FURTHER DETAILS

An external operating panel is available so that the TFT screen can be operated remotely. This is particularly useful where the power supply may be operating in a potentially hazardous environment, such as a test cell.

### OPTIONS

CODE	DESCRIPTION
/F400	Increased output frequency range 95 - 420Hz
/F800	Increased output frequency range 195 - 805Hz
/IES	Interface for emergency stop
/ETHERNET	Factory fitted Ethernet interface
/ANALOGUE	Factory fitted 0 - 10V analogue interface
/EOP	External operation panel for remote control of the unit

### TECHNICAL DATA

GENERAL	
Mains Input Voltage	3 × 400VAC ± 10%, 50/60Hz (other inputs available on request)
Output Voltage	See selection table
Standard Output Frequency	45 - 105Hz (other ranges optionally available)
Output Frequency Accuracy	± 0.1%
Rated Output Power	See selection table
Static Voltage Regulation	± 1% [fs]
Dynamic Voltage Regulation	± 4% at 100% load change [50/60Hz], ±8% [800Hz]
Asymmetric Load Voltage Regulation	± 2% at 100% unbalanced load
Regulation Time	<25msec
Overload Characteristic	150% for 1 min / 125% for 10 min / 110% for 20 min
Short-Circuit Characteristic	2 × I <sub>NOM</sub> for 5s according EN 50091, Part 1
Waveform	Sinusoidal
Distortion Factor at Linear Load	≤5% (typically 3%)
EMC	According to EN 50091-2
Permissible Power Factor	Power derating, if power factor deviates from 0.8 lagging
Crest Factor of the Load Current	≤2.3% [at 100% load]
Permissible Ambient Temperature	0 up to +40°C
Permissible Environment	3K3 according to IEC 60721 (max. 85% rel. humidity, none condensation)
Permissible Operating Altitude	1000m above sea level with rated load
Protection Class	IP20 according to IEC 60529
Paint Finish	RAL 7035
Cooling	Forced air cooling or convection cooling dependent on rated nominal system power

## SELECTION TABLE

Part Number	Maximum Power	Voltage Range*	Output Current
EAC-PAVS 10-150	10kVA	3 - 150Vrms	66.6A
EAC-PAVS 10-300	10kVA	6 - 300Vrms	33.3A
EAC-PAVS 10-600	10kVA	12 - 600Vrms	16.6A
EAC-PAVS 15-150	15kVA	3 - 150Vrms	100A
EAC-PAVS 15-300	15kVA	6 - 300Vrms	50A
EAC-PAVS 15-600	15kVA	12 - 600Vrms	25A
EAC-PAVS 20-150	20kVA	3 - 150Vrms	133.3A
EAC-PAVS 20-300	20kVA	6 - 300Vrms	66.6A
EAC-PAVS 20-600	20kVA	12 - 600Vrms	33.3A
EAC-PAVS 25-150	25kVA	3 - 150Vrms	166.6A
EAC-PAVS 25-300	25kVA	6 - 300Vrms	83.3A
EAC-PAVS 25-600	25kVA	12 - 600Vrms	41.6A
EAC-PAVS 30-150	30kVA	3 - 150Vrms	200A
EAC-PAVS 30-300	30kVA	6 - 300Vrms	100A
EAC-PAVS 30-600	30kVA	12 - 600Vrms	50A
EAC-PAVS 40-150	40kVA	3 - 150Vrms	266.6A
EAC-PAVS 40-300	40kVA	6 - 300Vrms	133.3A
EAC-PAVS 40-600	40kVA	12 - 600Vrms	66.6A
EAC-PAVS 50-150	50kVA	3 - 150Vrms	333.3A
EAC-PAVS 50-300	50kVA	6 - 300Vrms	166.6A
EAC-PAVS 50-600	50kVA	12 - 600Vrms	83.3A
EAC-PAVS 60-150	60kVA	3 - 150Vrms	400A
EAC-PAVS 60-300	60kVA	6 - 300Vrms	200A
EAC-PAVS 60-600	60kVA	12 - 600Vrms	100A
EAC-PAVS 80-150	80kVA	3 - 150Vrms	533.3A
EAC-PAVS 80-300	80kVA	6 - 300Vrms	266.6A
EAC-PAVS 80-600	80kVA	12 - 600Vrms	133.3A
EAC-PAVS 100-150	100kVA	3 - 150Vrms	666.6A
EAC-PAVS 100-300	100kVA	6 - 300Vrms	333.3A
EAC-PAVS 100-600	100kVA	12 - 600Vrms	166.6A
EAC-PAVS 120-150	120kVA	3 - 150Vrms	800A
EAC-PAVS 120-300	120kVA	6 - 300Vrms	400A
EAC-PAVS 120-600	120kVA	12 - 600Vrms	200A
EAC-PAVS 160-150	160kVA	3 - 150Vrms	1066.6A
EAC-PAVS 160-300	160kVA	6 - 300Vrms	533.3A
EAC-PAVS 160-600	160kVA	12 - 600Vrms	266.6A
EAC-PAVS 200-150	200kVA	3 - 150Vrms	1333.3A
EAC-PAVS 200-300	200kVA	6 - 300Vrms	666.6A
EAC-PAVS 200-600	200kVA	12 - 600Vrms	333.3A

\* The value given is a line to neutral measurement.

Different output ranges and application/user specific options are possible. Please contact ETPS Ltd to discuss your requirements.

Every effort is made to ensure that the information provided within this technical summary is accurate. However, ETPS Ltd must reserve the right to make changes to the published specifications without prior notice. Where certain operating parameters are critical for your application we advise that they be confirmed at the time of order. ETPS Ltd specialises in modifying its proven platforms to suit your needs. Please contact our office if your requirement is non-standard. Please note that your actual unit may differ from those shown.



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