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EAC-3P

3 Phase Linear AC Source

Description

Starting at 750VA the EAC-3P is available up to 30kVA as standard. On request 3 phase systems will be built to suit your particular voltage and power outputs. The Linear design ensures low ripple and noise while providing the fastest response times. Voltage and current limits are automatically adjusted from the master unit. Options are available to independently set voltage, current limit and relative angles should separate phase balances be required. Along with adjustable frequency push buttons provide quick and precise settings for common output frequencies. An external oscillator input enables a signal to be amplified from a waveform generator. A choice of analogue and Computer interfaces are offered making the EAC-3P ideal for integration into automatic test systems.



- Constant voltage/constant current operation
- Fixed and adjustable frequencies
- Waveform generator input
- Straightforward operation
- Adjustable phase angle
- Linear Platform

Selection Table

Part Number	Max Power	Output Voltage	Current	Dimensions (Width x Height x Depth)
EAC-3P 250	3 x 250VA	3 x 0 - 270 Vrms	3 x 3 A	3 x 19" x 4U x 435mm
EAC-3P 500	3 x 500VA	3 x 0 - 270 Vrms	3 x 6 A	3 x 19" x 4U x 435mm
EAC-3P 1000	3 x 1kVA	3 x 0 - 270 Vrms	3 x 10 A	3 x 19" x 6U x 435mm
EAC-3P 2000	3 x 2kVA	3 x 0 - 270 Vrms	3 x 15 A	3 x 19" x 6U x 435mm
EAC-3P 3000	3 x 3kVA	3 x 0 - 270 Vrms	3 x 20 A	3 x 19" x 10U x 435mm
EAC-3P 4000	3 x 4kVA	3 x 0 - 270 Vrms	3 x 30 A	3 x 19" x 16U x 600mm**
EAC-3P 5000	3 x 5kVA	3 x 0 - 270 Vrms	3 x 35 A	3 x 19" x 16U x 600mm**
EAC-3P 6000	3 x 6kVA	3 x 0 - 270 Vrms	3 x 40 A	3 x 19" x 16U x 600mm**
EAC-3P 7000	3 x 7kVA	3 x 0 - 270 Vrms	3 x 50 A	3 x 19" x 16U x 600mm**
EAC-3P 8000	3 x 8kVA	3 x 0 - 270 Vrms	3 x 60 A	3 x 19" x 20U x 780mm**
EAC-3P 9000	3 x 9kVA	3 x 0 - 270 Vrms	3 x 70 A	3 x 19" x 20U x 780mm**
EAC-3P 10000	3 x 10kVA	3 x 0 - 270 Vrms	3 x 80 A	3 x 19" x 20U x 780mm**

**Delivered fitted in a cabinet

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



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Options Table

Code	Description
/CC.....	Additional constant current mode allowing current limit setting
/DC.....	DC mode operation
/V3.....	Separate voltage adjustment of phases 1 to 3
/C3.....	Separate current adjustment of phases 1 to 3
/PHS.....	Programmable angle of phases 2 and 3 in relation to phase 1
/F1.....	Increased frequency range 1 - 1000Hz
/F2.....	Increased frequency range 1 - 2000Hz
/ATE.....	No front panel control or display. Analogue Interface provided as standard
/AI-5.....	0-5V Analogue Interface for all control and measurement functions
/AI-10.....	0-10V Analogue Interface for all control and measurement functions
/ATI-5.....	Isolated 0-5V Analogue Interface for all control and measurement functions
/ATI-10.....	Isolated 0-10V Analogue Interface for all control and measurement functions
/LT.....	IEEE 488.2 Interface with listener and talker functions
/LTRS232.....	RS232 Interface with listener and talker functions
/LTRS485.....	RS485 Interface with listener and talker functions
/LT+LTRS232.....	IEEE 488.2 and RS232 Interfaces with listener and talker functionality
/LT+LTRS485.....	IEEE 488.2 and RS485 Interfaces with listener and talker functionality
/CAN.....	CAN Interface with listener and talker functions
/USB.....	USB Interface with listener and talker functions
/ETH.....	Ethernet interface with listener and talker functions over a LAN
/V300.....	Extended output voltage range 300Vrms
/V500.....	Extended output voltage range 500Vrms (Current output reduces by 40%)
/V700.....	Extended output voltage range 700Vrms (Current output reduces by 50%)
/AR.....	Power output at rear panel
/CF2.....	Peak current 2 x Nom. (Cresfactor 2)
/CF3.....	Peak current 3 x Nom. (Cresfactor 3)
/CF4.....	Peak current 4 x Nom. (Cresfactor 4)
/EXT OSZ.....	External oscillator input (20V _{p,p})

Technical Data

Input voltage.....	230VAC or 2 x 400VAC or 3 x 400VAC, 50/60Hz
Safety.....	EN 61010
Emissions.....	EN 61000-6-3
Immunity.....	EN 61000-6-1
Output power.....	see table
Power derating cos \leq 0.7.....	14%/ delta 0.1 cos phi
O/p voltage range.....	see table
Max. o/p current AC.....	see table
Frequency range.....	1-500Hz (1 and 2 kHz option)
Frequency range (with DC option).....	DC-500Hz (1 and 2 kHz option)
Mains regulation.....	0.1%
Load regulation.....	0.2%
Transient response time.....	typically <10ms for 10 to 90% load change
Distortion factor.....	0.3% at 50Hz
Program accuracy AC.....	0.1%
Program accuracy DC.....	0.1%
Program accuracy current.....	0.2%
Program accuracy phase angle.....	0.5° (0-360°)
Program accuracy frequency.....	0.1%
Ext. oscillator input.....	20Vpp / DC - 1000Hz
Measurement rms voltage.....	0.2%
Measurement rms current.....	0.2%
Measurement power.....	0.2%
Analogue interface.....	Option /AI-5 (0-5V), /AI-10 (0-10V)
Isolated analogue interface.....	Option /ATI-5 (0-5V), ATI-10 (0-10V)
RS 232/RS 485 Interface.....	12 bit
IEEE488.2/GPIB Interface.....	12 bit
USB interface.....	12 bit
CAN interface.....	12 bit
Cooling.....	Internal fan
Operating temperature range.....	0 to 40° C
Storage temperature range.....	-40 to +85° C

Every effort is made to ensure that the information provided within this technical summary is accurate. However, ET 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. ET 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.