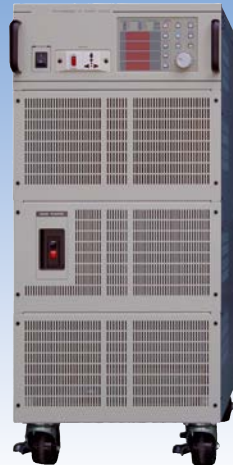


**9 HE/U 9,5"****19 HE/U 19"**

- 单相或三相输入
- 单相输出 (ACP 300型号)
- 三相输出 (0...300 V AC型号)
- 输出电压
- 可变与固定输出频率
 - 45...250 Hz, 45...450 Hz, 40...500 Hz
 - 50 Hz / 60 Hz / 400 Hz
- 输出功率等级: 500 VA至150 kVA
- 线性或开关技术
- 效率高达>85%
- 低失真度<0,25% (LR-型号)
- 过载、过压、过温保护
- 上升时间0.1...100 s内可调 (软启动)
- 带RS232与RS485接口
- 远程感测功能 (针对线性型号)
- 多项选择

概述

EA-ACP-300系列交流源是基于线性或开关技术的电子设备, 通过提供一可调电压与频率来模拟三相或三相交流电网。

针对各种不同的应用与测试设备, 我们可供500 VA至50000 VA的单相产品, 以及1.5 kVA至150 kVA 三相产品。

我们的交流源输出电压稳定, 且与输入端隔离, 可从0 V调至最大值。

所有型号以19"全机柜或半机柜结构设计。

都配有RS232与RS485数字接口, 可进行远程控制与监控。

通过文本格式的SCPI指令集可访问产品。

可选件

- 输出电压范围为0...600 V, 可分为两个标准电压范围或代替范围0...150 V (非所有型号具有该特征, 具体型号可咨询)
- 还配GPIB/IEEE488接口 (仅三相型号有)
- 不同的频率范围 (非所有型号具有, 具体可咨询)

- **Single or three-phase input**
- **Single-phase output (ACP 300 models)**
- **Three-phase output (ACP3P models)**
- **Output voltage: 0...300 V AC**
- **Variable and fixed output frequency**
 - 45...250 Hz, 45...450 Hz, 40...500 Hz
 - 50 Hz / 60 Hz / 400 Hz
- **Output power ratings: 500 VA up to 150 kVA**
- **Linear or switching technology**
- **Efficiency up to >85%**
- **Low THD of <0.25% (LR models)**
- **Overload, overvoltage, overtemperature protection**
- **Ramp-up time adjustable 0.1...100 s (soft start)**
- **RS232 and RS485 interfaces**
- **Remote sensing (with linear models)**
- **Various options**

General

The AC sources of the series EA-ACP-300 are fully electronic devices in either linear or switching technology and are used to simulate single- or three-phase AC grids by providing an adjustable voltage and frequency.

For various applications and test equipment there are single-phase models from 500 VA to 50000 VA, as well as three-phase models from 1.5 kVA to 150 kVA available.

The electronically converted and stabilised output voltage of our AC source is galvanically isolated from the input and is completely adjustable from 0 V to the maximum.

All models are designed in full or half 19" rack mount enclosures or cabinets.

All models offer the digital interfaces RS232 and RS485 for remote control and monitoring.

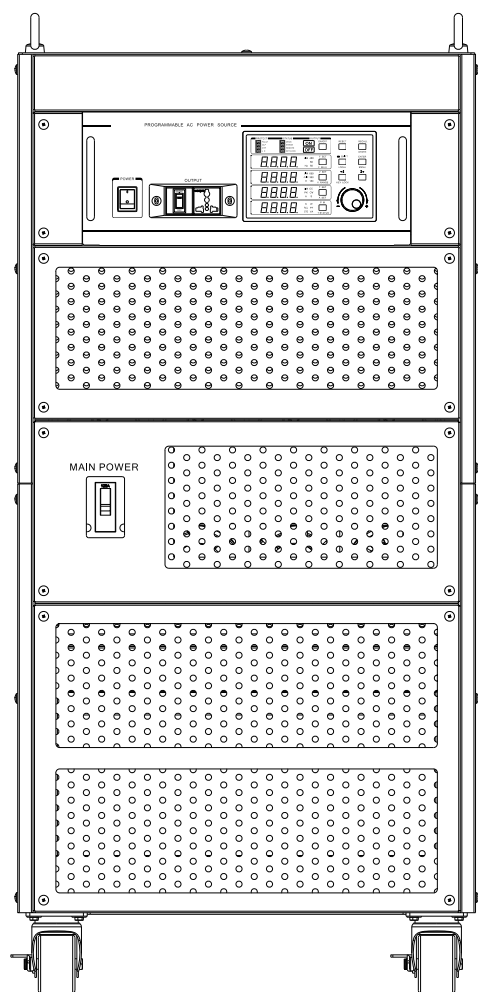
The device are contacted via the text based SCPI command set.

Options

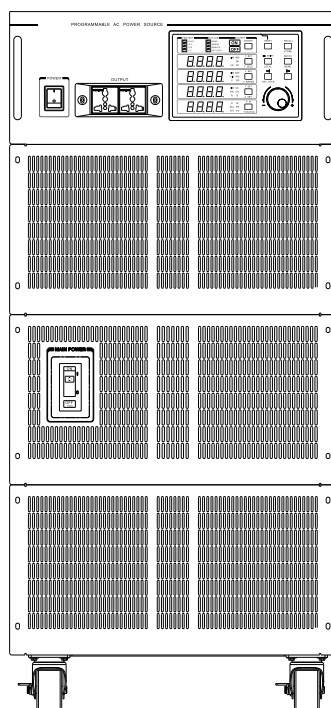
- Voltage range 0...600 V, either additionally to the two standard voltage range or replacing range 0...150 V (not available for all models, please enquire)
- Additional GPIB/IEEE interface (three-phase models only)
- Different frequency range (not available for all models, please enquire)

基于线性技术的单相产品型号 / 1-phase models with linear technology

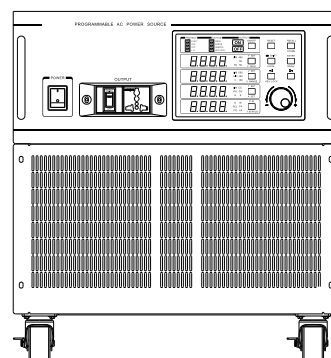
技术参数	Technical Data	ACP 300- 4,2-500 LR	ACP 300- 8,4-1000 LR	ACP 300- 25-3000 LR	ACP 300- 42-5000 LR	ACP 300- 50-6000 LR	ACP 300- 84-10000 LR
AC输入	Input AC						
- 电压	- Voltage	220 V, $\pm 10\%$, 1ph+N	220 V, $\pm 10\%$, 1ph+N	220 V, $\pm 10\%$, 1ph+N	380 V, $\pm 10\%$, 3ph+N	380 V, $\pm 10\%$, 3ph+N	380 V, $\pm 10\%$, 3ph+N
- 电流	- Current	最大 5.8 A	最大 11.2 A	最大 33.5 A	最大 24 A / ph	最大 29 A / ph	最大 48 A / ph
- 频率	- Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
AC输出	Output AC						
- 电压	- Voltage	0...300 V	0...300 V	0...300 V	0...300 V	0...300 V	0...300 V
- 可调频率	- Frequency variable	40...500 Hz	40...500 Hz	40...500 Hz	40...500 Hz	40...500 Hz	40...500 Hz
- 固定频率	- Frequency fixed	50 / 60 / 400 Hz	50 / 60 / 400 Hz	50 / 60 / 400 Hz	50 / 60 / 400 Hz	50 / 60 / 400 Hz	50 / 60 / 400 Hz
- 频率精确度	- Frequency accuracy	$\pm 0.01\%$	$\pm 0.01\%$	$\pm 0.01\%$	$\pm 0.01\%$	$\pm 0.01\%$	$\pm 0.01\%$
- 带载0-100%的稳定度	- Stability at 0-100% load	$\pm 0.2\%$	$\pm 0.2\%$	$\pm 0.2\%$	$\pm 0.2\%$	$\pm 0.2\%$	$\pm 0.2\%$
- 电流	- Current						
- 在 0...150 V时	- at 0...150 V	最大 4.2 A	最大 8.4 A	最大 25 A	最大 42 A	最大 50 A	最大 84 A
- 在 150...300 V时	- at 150...300 V	最大 2.1 A	最大 4.2 A	最大 12.5 A	最大 21 A	最大 25 A	最大 42 A
输出功率	Output power	500 VA	1000 VA	3000 VA	5000 VA	6000 VA	10000 VA
瞬态响应时间	Transient response	约 / approx. 100 μ s					
效率	Efficiency	>50%					
THD-总谐波失真	THD	<0.25%					
接口	Interfaces	RS232, RS485					
操作温度	Operation temperature	0...45°C					
相应湿度	Relative humidity	10...90% 无凝露 / non-condensing					
重量	Weight	30 kg	47 kg	104 kg	235 kg	280 kg	650 kg
尺寸 (W H)	Dimensions (W H)	19" 4 HE/U	19" 4 HE/U	19" 9 HE/U	600 mm 25 HE/U	600 mm 25 HE/U	800 mm 35 HE/U
产品编号	Article number	39540003	39540013	39540014	39540015	39540016	39540017



35U产品结构图 / Model in 35U



19U产品结构图 / Model in 19U



9U产品结构图 / Model in 9U



EA-ACP 300 / EA-ACP3P 500 VA - 150 KVA

交流源 / AC SOURCES

基于开关技术的单相产品型号 / 1-phase models with switching technology

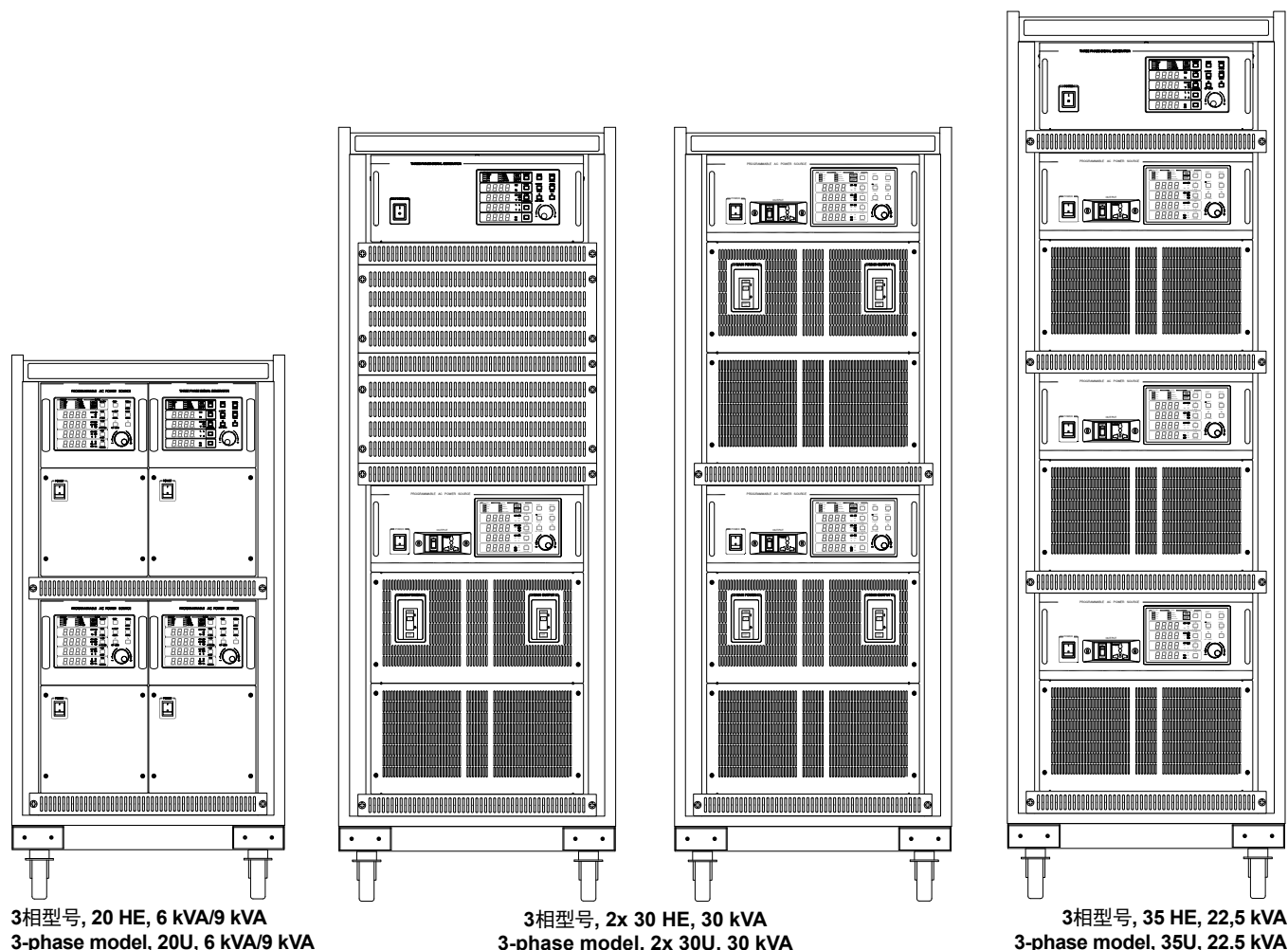
技术参数	Technical Data	ACP 300-16,8-2000	ACP 300-25-3000	ACP 300-42-5000	ACP 300-63-7500	ACP 300-84-10000
AC输入	Input AC					
- 电压	- Voltage	220 V, ±10%, 1ph+N	220 V, ±10%, 1ph+N	220 V, ±10%, 1ph+N	380 V, ±10%, 3ph+N	380 V, ±10%, 3ph+N
- 电流	- Current	最大 15.5 A	最大 22 A	最大 35.5 A	最大 18 A / ph	最大 30 A / ph
- 频率	- Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
AC输出	Output AC					
- 电压	- Voltage	0...300 V	0...300 V	0...300 V	0...300 V	0...300 V
- 可调频率	- Frequency variable	40...450 Hz	40...450 Hz	40...450 Hz	40...450 Hz	45...250 Hz
- 固定频率	- Frequency fixed	50 / 60 / 400 Hz	50 / 60 / 400 Hz	50 / 60 / 400 Hz	50 / 60 / 400 Hz	50 / 60 Hz
- 频率精确度	- Frequency accuracy	±0.01%	±0.01%	±0.01%	±0.01%	±0.01%
- 带载0-100% 的稳定度	- Stability at 0-100% load	±0.2%	±0.2%	±0.2%	±0.2%	±0.2%
- 电流	- Current					
- 在 0...150 V时	- at 0...150 V	最大 16.7 A	最大 25 A	最大 42 A	最大 63 A	最大 84 A
- 在150...300 V时	- at 150...300 V	最大 8.4 A	最大 12.5 A	最大 21 A	最大 31.5 A	最大 42 A
输出功率	Output power	2000 VA	3000 VA	5000 VA	7500 VA	10000 VA
瞬态响应时间	Transient response	约 / approx. 2 ms				
THD-总谐波失真	THD	≤2%				
接口	Interfaces	RS232, RS485				
操作温度	Operation temperature	0...45°C				
相应湿度	Relative humidity	10...90% 无凝露 / non-condensing				
重量	Weight	65 kg	68 kg	83 kg	93 kg	138 kg
尺寸 (W H)	Dimensions (W H)	9.5" 9 HE/U	9.5" 9 HE/U	19" 9 HE/U	19" 9 HE/U	19" 14 HE/U
产品编号	Article number	39540004	39540005	39540006	39540007	39540008

技术参数	Technical Data	ACP 300-125-15000	ACP 300-168-20000	ACP 300-250-30000	ACP 300-420-50000
AC输入	Input AC				
- 电压	- Voltage	380 V, ±10%, 3ph+N	380 V, ±10%, 3ph+N	380 V, ±10%, 3ph+N	380 V, ±10%, 3ph+N
- 电流	- Current	最大 35 A / ph	最大 43 A / ph	最大 58 A / ph	最大 97 A / ph
- 频率	- Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
AC输出	Output AC				
- 电压	- Voltage	0...300 V, 1ph+N	0...300 V, 1ph+N	0...300 V, 1ph+N	0...300 V, 1ph+N
- 可调频率	- Frequency variable	45...250 Hz	45...250 Hz	45...250 Hz	45...250 Hz
- 固定频率	- Frequency fixed	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
- 频率精确度	- Frequency accuracy	±0.01%	±0.01%	±0.01%	±0.01%
- 带载0-100% 的稳定度	- Stability at 0-100% load	±0.2%	±0.2%	±0.2%	±0.2%
- 电流	- Current				
- 在 0...150 V时	- at 0...150 V	最大 125 A	最大 168 A	最大 250 A	最大 420 A
- 在150...300 V时	- at 150...300 V	最大 62.5 A	最大 84 A	最大 125 A	最大 210 A
输出功率	Output power	15000 VA	20000 VA	30000 VA	50000 VA
瞬态响应时间	Transient response	约 / approx. 2 ms			
THD-总谐波失真	THD	≤2%			
接口	Interfaces	RS232, RS485			
操作温度	Operation temperature	0...45°C			
相应湿度	Relative humidity	10...90% 无凝露 / non-condensing			
重量	Weight	154 kg	230 kg	400 kg	550 kg
尺寸 (W H)	Dimensions (W H)	19" 14 HE/U	19" 35 HE/U	19" 35 HE/U	19" 35 HE/U
产品编号	Article number	39540009	39540010	39540011	39540012

基于开关技术的3相产品型号 / 3-phase models with switching technology

技术参数	Technical Data	ACP3P 520-16,8-6000	ACP3P 520-25-9000	ACP3P 520-63-22500	ACP3P 520-84-30000
AC输入	Input AC				
- 电压	- Voltage	380 V, $\pm 10\%$, 3ph+N	380 V, $\pm 10\%$, 3ph+N	380 V, $\pm 10\%$, 3ph+N	380 V, $\pm 10\%$, 3ph+N
- 电流	- Current	最大 13 A / ph	最大 20 A / ph	最大 50 A / ph	最大 67 A / ph
- 频率	- Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
AC输出	Output AC				
- 电压	- Voltage	0...300 V, L-N 0...520 V, L-L	0...300 V, L-N 0...520 V, L-L	0...300 V, L-N 0...520 V, L-L	0...300 V, L-N 0...520 V, L-L
- 可调频率	- Frequency variable	45...450 Hz	45...450 Hz	45...450 Hz	45...250 Hz
- 固定频率	- Frequency fixed	50 / 60 / 400 Hz	50 / 60 / 400 Hz	50 / 60 / 400 Hz	50 / 60 Hz
- 频率精确度	- Frequency accuracy	$\pm 0.01\%$	$\pm 0.01\%$	$\pm 0.01\%$	$\pm 0.01\%$
- 带载0-100%的稳定度	- Stability at 0-100% load	$\pm 0.2\%$	$\pm 0.2\%$	$\pm 0.2\%$	$\pm 0.2\%$
- 电流	- Current				
- 在 0...150 V时	- at 0...150 V	最大 16.8 A	最大 25 A	最大 63 A	最大 84 A
- 在 150...300 V时	- at 150...300 V	最大 8.4 A	最大 12.5 A	最大 31.5 A	最大 42 A
输出功率	Output power	3x 2000 VA (L-N) 3460 VA (L-L)	3x 3000 VA (L-N) 5190 VA (L-L)	3x 7500 VA (L-N) 12975 VA (L-L)	3x 1000 VA (L-N) 17300 VA (L-L)
瞬态响应时间	Transient response	约 / approx. 2 ms			
THD-总谐波失真	THD	$\leq 2\%$			
接口	Interfaces	RS232, RS485, 可选 GPIB			
操作温度	Operation temperature	0...45°C			
相应湿度	Relative humidity	10...90% 无凝露 / non-condensing			
重量	Weight	216 kg	240 kg	415 kg	615 kg
尺寸 (W H)	Dimensions (W H)	560 mm 20 HE/U	560 mm 20 HE/U	560 mm 35 HE/U	2x 560 mm 30 HE/U
产品编号	Article number	39540001	39540020	39540022	39540018

其它3 kVA至150 kVA的三相产品（线性或开关模式）可按需提供 / Further three-phase models (linear or switching) from 3 kVA to 150 kVA upon request





函数管理器

某些电源与电子负载系列本机配备的函数管理器，它为直流输入或输出电压与电流提供有标准函数（正弦，方形）或特殊函数（）可选。还可调节多个参数，如：振幅，时间，频率等。

高速跃变

为减少输出电压和电流的动态动作，可执行产品内部永久更改，即输出容量减至最小值。该修改可使输出电压的上升和下降时间缩至最短，但同时电压和电流的纹波会增加。部分电源系列配备该功能。

OT/OTP

过温的简称。这是一个报警条件，指示出产品过热。在此条件下，功率端会暂时关闭，当产品冷却后自动恢复工作（正常工作）。然后报警指示会消失。

OCP

过流保护的简称。指示可调电流极限被超过，它会关闭直流输出，而恒流极限仅能将输出电流限制到可调值。

OVP

过压保护的简称。指示可调电压极限被超过，它会关闭直流输出或输入，以便保护应用设备免受危险电压的损坏。

OPP

过功率保护的简称。它会将超过的（一般）功率极限值指示出来，通常会关闭直流输出或输入，以便保护应用设备被损坏。

PF

电源故障的简称。它表示产品AC输入部分故障，或者AC供电端过压或欠压。在此状态下，功率输入与输出端会关闭。

Function generator

The function generator, which is included with certain series of power supplies and electronic loads, provides an option to apply a standard function (e.g. sine, square) or special functions (DIN 40835, photovoltaics, fuel cell) to the DC input resp. DC output value of voltage or current. It also offers to adjust various parameters such as amplitude, time, frequency etc.

High speed ramping

Device internal and permanent modification where the output capacities are reduced to a minimum value in order to increase the dynamics of the output regarding voltage and current. With this optional modification, the rise and fall time of the output voltage minimizes significantly while at the same time the voltage and current ripples are increased. This option is available for selected power supply series.

OT/OTP

Short for overtemperature. This is an alarm condition, which indicates overheating of a device. In this condition the power stages are deactivated temporarily and will continue to work (usually) automatically after cooling down. Then the alarm indication will be erased.

OCP

Short for overcurrent protection. A feature that indicates the exceedance of an (usually) adjustable current threshold, which switches the DC output off, contrary to the constant current limitation which only limits the output current to the adjusted value.

OVP

Short for overvoltage protection. A feature that indicates the exceedance of an (usually) adjustable voltage threshold, which always switches the DC output or input off, in order to protect an application from dangerous voltage.

OPP

Short for overpower protection. A feature that indicates the exceedance of an (usually) adjustable power threshold, which always switches the DC output or input off, in order to protect an application from dangerous power consumption or supply.

PF

Short for power fail. A feature which signals the defect of the AC input part of a device or the condition of over- or undervoltage of AC supply. During this condition, the power output resp. input is shut off.