

EPS - Datasheet

Series EPS/HC 3000

The series »EPS/HC 3000« from EPS Electronic Power Supplies is a range of adjustable, high DC current switched mode sources offering standard output voltages from 6V up to 30V (up to 1000V), output currents up to 3000A and output power ratings up to 40kW (different other output voltages/currents/power ratings upon request). The units are used in high-power environments such as electroplating as well Plasma (surface treatment, hardening), multiple industrial applications (powering of electric engine starters, DC motors, automatic end-of-line test systems for the testing of contactors, relays, switches) and heavy duty components in general.

All units are short-circuit proofed and overload protected. A switch-off, with a defined restart, takes place at mains undervoltage or overvoltage.

The modules are by standard without control.

The power modules can be controlled via the optional, external and comfortable LCD user panel »EPS/HC280«.

Optionally analog or digital interfaces for RS485, ProfiBus/Net, USB-Adapter (on analog), TCP/IP and EtherCat are available to control all the functions via a PC. The integrated shunt output connector on the rear of the system provides a shunting signal of 0-60mV for 0... Inenn; models up to 15kW has it integrated on the device plug. The DC sources with high output current are available with Cu bars and with high output voltage with HDFK terminals.

Remote sensing can be optionally done via a dedicated input which is directly connected to the test equipment, in order to compensate the voltage drops on the lines.

With the reverse polarity option, the power supply can also be used as a bipolar device (output voltage up to 60V max).

Energy Efficiency: High efficiency

Scope of delivery:
Power Supply
Operation Manual

EPS/HC 30120-300 DC Current Source



EPS/HC 3000_5-10kW

General data

Technology	Switching
Operation modes	CV. CC
Mains	3x400 VAC +/- 10%
Input frequency	50/60Hz
Power factor	>0.95
Input Current Limitation	Standard
Display	Option EPS/HC 280
Voltage resolution	Opt. 0,01V
Voltage accuracy	<0,5%
Current Resolution	Opt. 0,1A
Current Accuracy	<1%
Output Current Limitation	Standard
Overvoltage category	2
Overheat protection	Standard
Protection class	IP20
Parallel operation	Standard
Cooling	Fan
Operation temperature	0-40°C
Humidity	85% n.c
Attitude	1000m NN
Design	Built-in
Standards	EN55011(A,B) EN61000-6-4 EN61000-6-2 EN50178
Power fail	Standard
Alarmmanagement	Optional
Output Preset	Optional

Interfaces

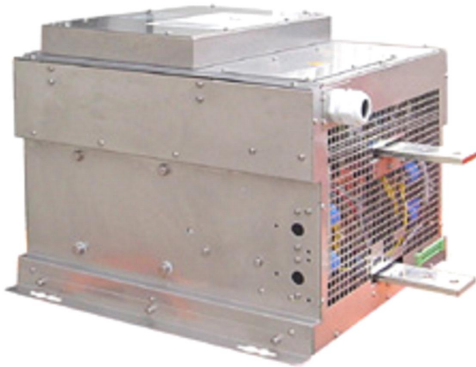
Analog Programming	Opt.EPS/HC Adapter
Analog Isolation	Standard
USB Interface	Option EPS/IF-UTA(101994)
RS485 Interface	Option EPS/HC IF-RS485
Profibus	Option EPS/HC IF-PB1
Ethernet Interface	Option EPS/HC TCP/IP

Technical data

Output Voltage	0-120 VDC
Output Current	0-300 A
Output Power	36000 W
Efficiency	>85 %
Ripple U	<1%
Remote Sensing	Option EPS/HC Sense
Dimensions in mm (WxHxD)	510 x 275 x 590
Weight	60 kg
Order code	103004



EPS/HC 3000_15kW



EPS/HC 3000_20kW



EPS/HC 3000-40kW



EPS/HC280 Control Panel



Subject to modification without notice, errors and omissions excepted

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