



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 and USB-Adapter (on analog) 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 30010-3000
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
Voltage accuracy	<0,5%
Current Accuracy	<1%
Output Current Limitation	Standard
Overheat protection	Standard
Protection class	IP20
Parallel operation	Standard
Cooling	Fan
Operation temperature	0-35°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

Interfaces

Analog Isolation	Opt.EPS/HC IF-DASI
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Series EPS/HC 3000

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 IF-LAN

Technical data

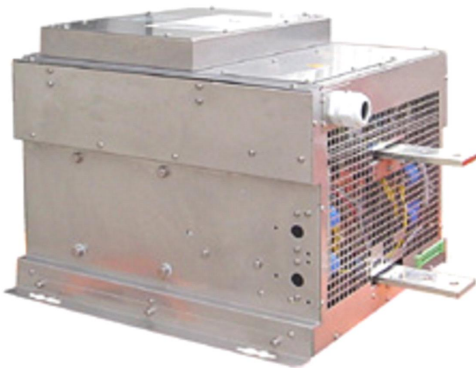
Output Voltage	0-10 VDC
Output Current	0-3000 A
Output Power	30000 W
Input Current	53A
Efficiency	>85 %
Ripple U	<1%
Ripple I	<1% (2-100% Inom.)
Remote Sensing	Option EPS/HC Sense
Dimensions in mm (WxHxD)	557 x 332 x 1027
Weight	125 kg
Order code	200923

Options

Option 1	External LCD user panel EPS/HC 280
Option 2	Reverse Polarity EPS/HC RP



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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