EPS - Datasheet

Series EPS/HC 4000-M

The series »EPS/HC 4000-M« of EPS Electronic Power Supplies is a range of adjustable, heavy-duty, switched mode power supplies offering standard output voltages from 6V up to 40V, output currents up to 2200A and output power ratings up to 48 kW (different other output voltages/currents/power ratings upon request). The units are used in high-power environments such as electroplating and 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. Moreover, your DUT is protected against overvoltage (OVP) and overcurrent (OCP).

The heavy duty switch mode power stage is build in a compact build-in housing in 4 different form factors (M1, M2, M3, M4) .
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 and digital interfaces (modules) for RS485, Profibus and USB-Adapter (on analog) are available to control all the functions via a PC.

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

Energy Efficiency: High efficiency

Scope of delivery:
Power Supply
Brackets (Design M3, M4)
Operation Manual

Series EPS/HC 4000-M

EPS/HC 40010-2200-M
DC Current Source

EPS/HC 4000-M-1

General datas

Technology	Switching
Operation modes	CV. CC
Mains	3x380-460VAC +/- 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
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

Series EPS/HC 4000-M

Interfaces

Analog Isolation	Opt. EPS/HC IF-DASI
USB Interface	Option EPS/IF-UTA(101994)
RS485 Interface	Option EPS/HC IF-RS485
Profibus	Option EPS/HC IF-PB1

Technical datas

Output Voltage	0-10 VDC
Output Current	0-2200 A
Output Power	22000 W
Input Current	38 A
Efficiency	~93 %
Ripple U	<1% (0-300Hz)
Remote Sensing	Option EPS/HC Sense
Dimensions in mm (WxHxD)	413 x 261 x 596
Weight	80 kg
Order code	102858

Options

Option 1	Reverse Polarity EPS/HC RP

EPS/HC 4000-M-2

Series EPS/HC 4000-M

EPS/HC 4000-M-3 with brackets

EPS/HC 4000-M-3_rear

EPS/HC 4000-M4 front

Series EPS/HC 4000-M

EPS/HC 4000-M4 rear

EPS/HC 280-LCD

Subject to modification without notice, errors and omissions exepted

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