EPS - Datasheet

Series EPS/HC 4000-WC

The series »EPS/HC 4000-WC« of EPS Electronic Power Supplies is a range of adjustable, switched mode high current sources offering standard output voltages from 6V up to 30V, output currents up to 2000A and output power ratings up to 30 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. A switch-off, with a defined restart. takes place at mains undervoltage or overvoltage.

The heavy duty switch mode power stage is build in a 19" housing in 2 different form factors.
The high-current power supplies can be controlled optionally via the built-in isoltated analog interface. As an option the operation and control are very simple with the backlight 3-line LCD display »EPS/HC280« and a tough touch panel. Optionally digital interfaces (modules) for RS485, Profibus and USB (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 the voltage drops on the lines.

There is also a special version with an output voltage of 1000V and with a output power of 20 and/or 40 kW available as an option.

Engergy efficiency: Water cooling

Scope of delivery:
Power Supply
Waterconnection via 1/2 inch
or bayonet
Operation Manual

Series EPS/HC 4000-WC

EPS/HC 41000-0020-WC
DC Voltage Source

EPS/HC 4000 Water Cooling

General datas

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/HC280
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	IP53
Series operation	Standard
Parallel operation	Standard
Cooling	Water cooling
Operation temperature	5-40°C
Humidity	85% n.c
Attitude	1000m NN
Design	19 inch
Standards	EN55011(A,B) EN61000-6-4 EN61000-6-2 EN50178
Power fail	Standard
Alarmmanagement	Optional

Series EPS/HC 4000-WC

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
Ethernet Interface	Option EPS/HC IF-LAN

Technical datas

Output Voltage	0-1000 VDC
Output Current	0-20 A
Output Power	20000 W
Efficiency	>85 %
Ripple U	<1%
Remote Sensing	Option EPS/HC Sense
Dimensions in mm (WxHxD)	482 x 133 x 515
Weight	70 kg
Order code	102776

Options

Option 1	Reverse Polarity EPS/HC RP

EPS/HC 280-LCD

Series EPS/HC 4000-WC

Subject to modification without notice, errors and omissions exepted

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