



## EPS - Datasheet

### Series EPS/GWH

With a new technology concept EPS Electronic Power Supplies offers the DC/DC converters »EPS/GWH«. Thus a maximum degree is reached by digitization, i.e. analog circuit components are saved and the number of parts is reduced. Thus the susceptibility to interference is reduced as well as the reliability is increased in a considerable degree.

The converters can be selected from many different input voltages from 16,8V to 162,5V DC, at 500W, with large voltage range. The adjustable single output voltages are switchable parallel redundantly, in order to realize higher achievements. The interconnected operation is supported by an active current share (> 100W). DIN rail assembly, 19"-system ability and optional wall assembly make a broad area of application in the industry, the power supply and traffic engineering as well as Telekom possible. The standard protection is against overload and temperature and supplemental by overvoltage protection, decoupling diode (with 100W optionally) and other equipment possibilities. Like that a remote sense input is present with devices starting from 100W, which can be attached directly at the load, in order to compensate voltage drop on the load lines.

For control recently a RS485 interface and a CAN bus are as an option. Thus the connection is possible to usual field bus types. Beside voltage and current a set of parameters, limit values, status and modes if necessary can be programmed and monitored over the interface. Configurable is also the characteristic in the incident.

The converters can be supplied optionally ruggedized or railway qualified.

Energy Efficiency: High efficiency, temperature regulated fans (> 100W), latest MOS technology

Scope of delivery:

Converter

Screw clamp terminal

Datasheet

## EPS/GWH 24/24/20,8 DC/DC Converter

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EPS/GWH100

### General datas

Technology	Switching
Operation modes	CV
Input Current Limitation	Standard
Voltage Stability Load	<0,1%U <sub>out</sub> (0-100%)
Voltage Stability Mains	<0,1%U <sub>out</sub>
Response time	<=2ms
Overheat protection	Standard
Protection class	I
Parallel operation	Standard
Current sharing	Standard
Cooling	Fan
Operation temperature	-25°C - 70°C
Design	DIN Rail
Standards	EN60950-1, EN6100-6-3, EN61000-6-2
ruggedized	Option EPS/GWH FFVA

### Interfaces

RS485 Interface	Option EPS/GWH-D
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### Technical datas

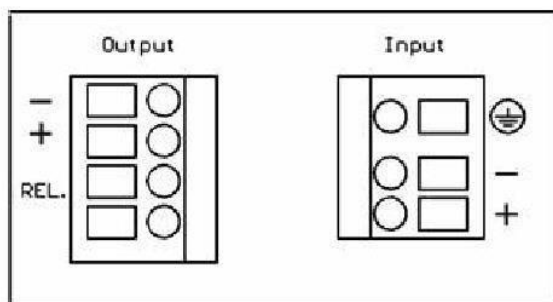
Output Voltage	24 VDC
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### Technical datas

Output Current	20,8 A
Output Power	500 W
Input Voltage	16,8-39 VDC
Efficiency	>80%
Remote Sensing	Standard (1,0V)
Dimensions in mm (WxHxD)	225 x 125 x 125
Weight	2,6kg
Order code	112830

### Options

Option 1	Wall mounting EPS/GWH-MPW
Option 4	Decoupling diode output EPS/GWH-DDO
Option 5	19"-Rack mounting EPS/GWH-SFPC



EPS/GWH 100 Pinning



EPS/GWH 500

Pin assignment	
Screw terminal X1 input	
ground	⊕
- Input	L -
+ Input	L +
Screw terminal X2 input	
+ output with decoupling diode	VD+ 2x
+output	V+
+output	V+
-output	V-
-output	V-
Screw terminal X3 signals	
Signal Relay COC	11 12 13
External ON/OFF	EA
Current Share	CS
+Sense	'+F
-Sense	'-F

EPS/GWH 500 Pinning

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Subject to modification without notice, errors and omissions exepted

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