

EPS - Datasheet

Series EPS/EL 9000B 3U/6U

EPS's programmable electronic DC loads »EPS/EL 9000B« series are especially suitable for test systems and industrial controls due to their compact construction of a 19" enclosure with 3+6 height units (3U+6U). The DC input range features new voltages up to 750V, currents up to 1020A at power ratings with 14,4kW. Apart from basic functions of electronic loads, set point curves can be produced in the integrated function generator (sine, rectangular, triangular and other curve types). Arbitrary curves can even be stored on and uploaded from a USB flash drive.

In the battery test mode, a battery can be discharged with a constant current, - power or - resistance until the battery voltage reaches an adjustable final discharge voltage. If this threshold is exceeded, the load input is automatically switched off (deep discharge protection). The discharge time and consumed charge (Ah) are measured and displayed. An integrated MPP tracking function simulates solar inverters in 4 different processes.

For remote control using a PC or PLC the devices are provided as standard with a USB-B slot on the back side as well as a galvanically isolated analog interface.

Via optional plug-in interface modules other digital interfaces such as Profibus, ProfiNet, ModBus TCP, CANopen, CAN and more can be added. These enable the devices to be connected to standard industrial buses simply by changing or adding a small module. The configuration, if at all necessary, is simple. Thus the loads may, for example, be operated with other loads or even other types of equipment or controlled by a PC or PLC, all using the digital interfaces. The control software EPS/PC for Windows allows remote control of multiple similar or different devices (optional, up to 20). It has a clear display for all set and actual values, as well as direct input mode of SCPI and ModBus commands and a firmware update function.

In addition the e-loads offer the possibility to connect to compatible power supplies via a Shared Bus, in order to create a so-called two-quadrants system. This operation mode uses the source-sink principle for testing devices, components and other parts in many industrial areas. A genuine master-slave connection with totalling of the slave units is also provided as standard. Operating in this way allows up to 16 units to be combined to a single system with a total power of up to 320 kW at 16320 A.

All models have a FPGA/DSP based digital control. These enable an exact and fast measurement and display of actual values. On request also Slave modules are available.

As an option are preconfigured cabinet systems and Multicontrol (Controlling up to 20 units at the same time) possible, too.

Energy Efficiency: Temperature regulated fans

Scope of delivery:
El. Load
Operation Manual
AC mains cord
Share-Bus plug
Remote sense plug
USB-cable 1.8m
Set DC-terminal cover(s)
USB stick "Drivers&Tools"



EPS - Datasheet

Series <u>EPS/EL 9000B 3U/6U</u>

Page 2

EPS/EL 9200-70 B Electronic Load



EPS/EL 9000B 3U

General data

Switching
CC.CV.CP.CR
90-264 VAC
45-65Hz
Standard
HMI TFT Touch Panel
0,01V
<=0,1% N.
<0,05% Un
0,01 A
<=0,2%
<0,1% ln
<40μs (10-90% N.)
<0,5% N.
Standard
2500V max.
+-400V max.
Master/Slave
Standard
Fan
0-50°C
-2070°C
<80% n.c
2000m /NN
19 inch



EPS - Datasheet Series EPS/EL 9000B 3U/6U Page 3

Standards EN61010-1,EN61000-6-2/3

Power fail Standard
Alarmmanagement Standard
Function generator +arbitrary
Memory 5 Profile

Interfaces

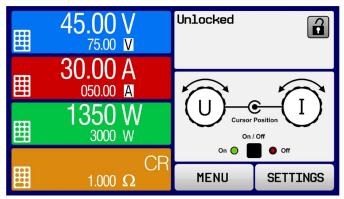
Analog Isolation	Standard (intern)
Accuracy Interface	0-5V <0,4% / 0-10V <0,2%
Remote Control	U/I/P/R
Input Signal	Intern/extern,Input on/off,R mode
USB Interface	Standard
RS232 Interface	Option EPS/IF-AB R
CAN Interface	Opt.EPS/IF-AB-CAN/Co
Profibus	Option EPS/IF-AB-PBUS
Ethernet Interface	Standard, Opt.IF-ETH2P
Ethercat Interface	Option EPS/IF-AB-ECT
Software	Standard FPS/PC Ontion FPS/MC

Technical data

Input Power	2000Wpeak/1500W@21°C
Input Voltage	0-200 VDC
Input Current	0-70 A
Resistance Adjustment Range 1	0,25-85 Ohm
Resistance Resolution Range 1	0,001 Ohm
Remote Sensing	max. 5% Unenn
Dimensions in mm (WxHxD)	19" x 133 x 464(568)
Weight	9 kg
Order code	300173

Options

Option 1	Calibration EPS/EL 9000B CAL
Option 2	Extended Warranty 2 / 3 / 5 years EPS/G2/3/5



EPS/EL 9000B TFT_HMI Touch panel



EPS - Datasheet

Series EPS/EL 9000B 3U/6U

E 2005 50- 123778001 @COM01 / User text: [807 - 518A - 7200W] VOLTAGE VO

EPS_Power Control Software

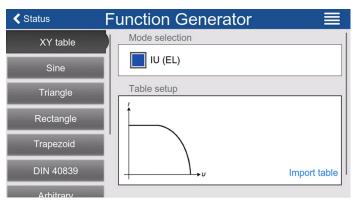


EPS_Battery dynamic-discharge-function



EPS - Datasheet Page 5

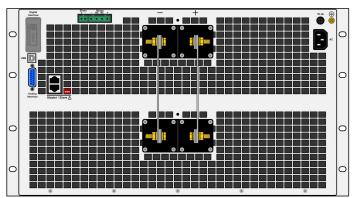
Series EPS/EL 9000B 3U/6U



EPS_XY-Tabelle -table



EPS_MPP Tracking



EPS/EL9000B rear_6U