



Mess- und Prüftechnik. Die Experten.

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Elektro-Automatik

Produkt Features

Übersicht der EA-10000 Produkt Features

	Programmable DC Power Supply		Programmable bidirectional	Programmable DC Electronic Load
	EA-PS 10000	EA-PSI 10000	EA-PSB 10000	EA-ELR 10000
BASIC FEATURES				
Control Modes				
Constant Voltage (CV)	✓	✓ ☐	✓	✓
Constant Current (CC)	✓	✓	✓	✓
Constant Power (CP)	✓	✓	✓	✓
Constant Resistance (CR)	✓	✓	✓	✓
Adjustable alarms	✓	✓	✓	✓
Safety Over-Voltage-Protection (60V DC versions)	✓	✓	✓	✗
Interface Supervision (CTE)	✓	✓	✓	✓
Interface Parameterisation	✓	✓	✓	✓
Measuring / programming (Bit)	16	16	16	16
Number of Encoders	2	2	2	2
Reading Actual Values				
Voltage	✓	✓	✓	✓
Current	✓	✓	✓	✓
Power	✓	✓	✓	✓
Resistance	✓	✓	✓	✓
Event supervision (U / I / P)	✗	✓	✓	✓

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Setting Actual Values				
Voltage	✓	✓	✓	✓
Current (power source)	✓	✓	✓	✗
Current (power sink)	✗	✗	✓	✓
Power (power source)	✓	✓	✓	✗
Power (power sink)	✗	✗	✓	✓
Resistance (power source)	✓	✓	✓	✗
Resistance (power sink)	✗	✗	✓	✓
Real-Time-Clock	✓	✓	✓	✓
Operation Counter (h, Ah, kWh, On, Off)	✓	✓	✓	✓
Semi F47 (voltage sag immunity)	✓	✓	✓	✗
Closed-loop Control Rate (DEFAULT/ SLOW/ FAST)	✓	✓	✓	✓
HARDWARE				
TFT Touch HMI, interactive operation and display	5"	5"	5"	5"
HMI Multi-Language (German, English, Russian, Chinese, French, Spanish, Korean)	✓	✓	✓	✓
On / Off push-button with LED status display	✓	✓	✓	✓
Piezo Buzzer (for acoustic alarms)	✓	✓	✓	✓
Output voltage Remote Sense input terminals	✓	✓	✓	✓
Share- Bus interface (system for parallel connection)	digital	digital	digital	digital
Master-Slave-Bus				
RS485	✓	✓	✓	✓
Number of paralleled devices	64	64	64	64
Loop Termination, software configurable	✓	✓	✓	✓
Bias, software configurable	✓	✓	✓	✓
Water cooling Option	✓	✓	✓	✓

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EXTENDED FEATURES				
Function generator	✗	✓	✓	✓
Sine /Rectangle / Triangle / Trapezoid / Ramp	✗	✓	✓	✓
Look Up Tables	✗	2	2	2
XY (UI / IU)	✗	✓	✓	✓
XY (PV / FC)	✗	✓	✓	✗
Arbitrary (up to 99 sequences)	✗	✓	✓	✓
Limit Detection				
Under-Voltage-Detection	✗	✓	✓	✓
Over-Voltage-Detection	✗	✓	✓	✓
Under-Current-Detection (power source)	✗	✓	✓	✗
Over-Current-Detection (power source)	✗	✓	✓	✗
Under-Current-Detection (power sink)	✗	✗	✓	✓
Over-Current-Detection (power sink)	✗	✗	✓	✓
Over-Power-Detection (power source)	✗	✓	✓	✗
Over-Power-Detection (power sink)	✗	✗	✓	✓
Battery testing				
Charging	✗	✗	✓	✗
Discharging	✗	✗	✓	✓
Combined Charging / Discharging	✗	✗	✓	✗
MPP Tracking	✗	✗	✓	✓
Data-Logging	✗	✓	✓	✓
The Graph (scope display on HMI)	✗	✓	✓	✓
CONNECTIVITY				
Hardware Interfaces				
USB Host, Type A (Front)	✓	✓	✓	✓
USB Device, Type B (Rear)	✓	✓	✓	✓
Analog (DB15 female connector)	✓	✓	✓	✓
Ethernet (RJ45)	✓	✓	✓	✓

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Slot for optional Interface Cards				
CAN / CANopen, (1x DB9, male connector)	optional	optional	optional	optional
DeciveNet (5.08 connector)	optional	optional	optional	optional
EtherCAT (1x RJ45)	optional	optional	optional	optional
Ethernet / IP (1x or 2x RJ45)	optional	optional	optional	optional
Modbus / TPC (1x or 2x RJ45)	optional	optional	optional	optional
Profibus DP-V1 (1x DB9, female connector)	optional	optional	optional	optional
ProfiNET-IO (1x or 2x RJ45)	optional	optional	optional	optional
RS232 (1x DB9, male connector)	optional	optional	optional	optional
SOFTWARE				
Drivers				
USB driver	✓	✓	✓	✓
IVI (Interchangeable Virtual Instruments) driver	✓	✓	✓	✓
LabView VI support (for Ethernet, USB, RS232)	✓	✓	✓	✓
Communication Protocols				
Modbus	✓	✓	✓	✓
SCPI	✓	✓	✓	✓
Applications				
EA Power Control support	✓	✓	✓	✓
EA Battery Simulator support	✗	✗	optional	✗

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