



DIGIcontrol-EPS250/180

- VDS compliant uninterruptible power supply
- Very high efficiency up to 95% 250VA power supply
- EN61000-3-2 class A power factor,
- 24V/10A with wide input range 80-275VAC
- IBB Interface for status report & diagnostic
- Charging and load current monitoring & report
- Battery charging management for two 12V/70Ah batteries
- Temperature controlled charging for long battery life time
- 1,2A IBB power booster
- 4x 1,5A/13,5V output with electronic fuse and monitoring
- powder painted steel wall mount box with tamper contact and lock

DIGIcontrol-EPS250

DIGIcontrol-EPS250 is a powerful extension for all ATS next generation Systems with extended need of uninterruptible power source. With 250W nominal and 300W/500ms peak power, it supplies an industry leading efficiency of 95% and an absolute minimum efficiency of 90% with 90VAC input and full load. This leap in efficiency has been achieved with full resonant ZCS topology and careful consideration to every aspect of power loss.

A wide input voltage range from 80 - 275VAC ensures stable operation under all thinkable conditions. The unit also boasts low earth leakage current of typically 160uA at 230V, class B conducted and radiated emissions and a MTBF of 365.000 Hrs.

A microprocessor controlled charging logic reports following important information to the IBB bus:

- 24 V Input voltage
- Battery voltage, load current & voltage
- Battery quality
- Battery temperature
- 4x external Output voltage
- Bus booster voltage
- Total load current

All four output and the bus booster fuse can be controlled remotely with reset or off/on command. An internal Flash memory allows to store configuration, bus-ID and time of new installed battery and characteristics.

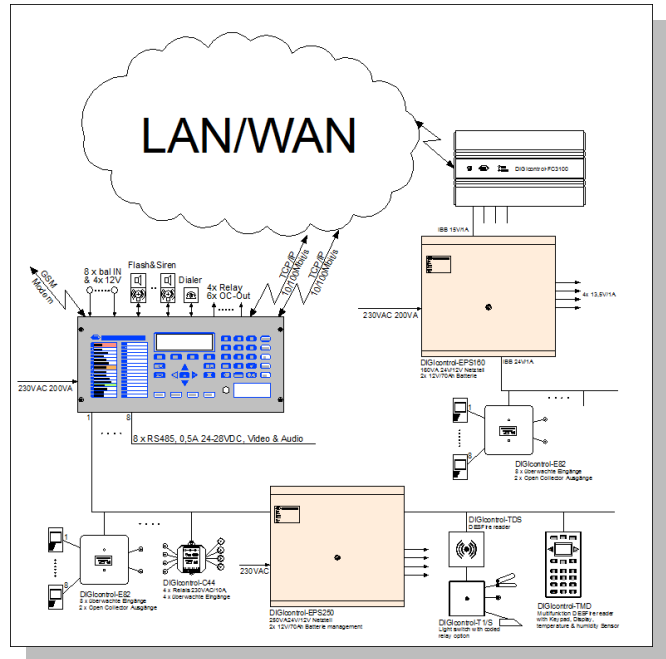
A jumper allows individual changing of the four external outputs from 13,5V to 24V. The incoming IBB bus power is used only to supply the CPU to enable the unit to report status even in case of total power loss. Two IBB-Bus connectors allow easy installation. The bus power is interrupted and the outgoing Bus connector is supplied with 24V/1,2A of the DIGIcontrol-EPS250 unit.

A cyclic routine measures the battery resistance at 50A and 5A for 50ms to check the battery quality and give notice if battery is near to end of life time.

Five dual colour LED's show status of CPU, main Power, 24V Bus output and summary of 12V Outputs. A tamper contact and a mechanical lock protects the unit from unauthorized opening.

A solid wall mount box includes power supply and space for two 12V/70Ah batteries including connection cables and space for additional IBB-Interfaces.

Power controller



Technical Data:

- AT89C51 CMOS microprocessor with 64kB Flash
- 2kB EEPROM for configuration data's
- 4x Dual-LEDs for status display
- 1x diagnostic port
- 1x Tamper contact
- 1x Dallas Battery temperature sensor
- 1x RS485 Intelligent Building Bus (IBB) to floor controller
- 1x IBB-Out with 24V 1.2A power insertion, electronic fuse with remote reset and ON/OFF control
- 4x 13,5V 1A power out individual change to 24V, electronic fuse with remote reset and ON/OFF control,
- 1x Temperature controlled battery charging with 4,2A max.
- 1x cyclic battery quality control
- Temperature range: -10° to +50°C

Power supply: 250VA 80-275VAC / 24V DC 10,4A
300W / 500ms peak power,
EN61000-3-2, class A; 90 – 95% efficiency
MTBF: 365.000Hrs

Dimensions: W520 x H470 x D210mm
Temperature range: -10° to +45°C

Delivery:

DIGIcontrol-EPS250 complete with, installation & wiring instructions; no batteries

Variants:

DIGIcontrol-EPS180

As DIGIcontrol-EPS250 but with only 3A max. battery charging current and with

180VA power supply 90-264VAC / 24V DC 7,5A
EN61000-3-2, class C; 85-90% efficiency
MTBF: 100.000Hrs

Information contained in this document is correct at the time of publication (110515) is subject to change without notice.

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ATS

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