





19" Plug-in module / approx. 106 kg

## Specifications

### Input

Voltage range . . . . . narrowing of input voltage range optimizes the efficiency (pls. specify), unit switches off at under- and overvoltage

No-load input power. . . . . 30 W typical

Switch-on time . . . . . < 1 s

Hold-up time . . . . . AC input: 5 ms typical

### Immunity

- ESD . . . . . acc. to DIN / EN 61000-4-2 level 3

- Fast transients . . . . . acc. to DIN / EN 61000-4-4 level 3

- Surges . . . . . acc. to DIN / EN 61000-4-5 level 3

### Output

Line regulation ( $\pm 10\%$ ) . . . . . 0.1 %

Load regulation (10-90 %) . . . . . 0.2 %

Load transient (10-90-10 %) . . . . . 6 % typical

Response time to  $\pm 1\%$  . . . . . 10 ms typical

Turn-on rise time . . . . . Soft-start, 300 ms typical

Ripple . . . . . 0.5 % rms

Overload protection . . . . . current limited to 105 - 110 % of  $I_{nom}$

Overvoltage protection . . . . . OVP switches off module with automatic return to operation, after 5 seconds, the unit will remain latched off

Remote sense . . . . . standard for CW series up to 150 V output, compensation up to 6 V

### General

Efficiency . . . . . 90 - 95 %

Operating temperature . . . . . -20 to +75 °C

Load derating . . . . . 2.5 % / °C from +55 °C

Storage temperature . . . . . -40 to +85 °C

Humidity . . . . . up to 95 % RH, non-condensing

Cooling . . . . . with water

Temperature coefficient . . . . . 0.02 % / °C typical

Safety / Construction . . . . . acc. to DIN / EN 60950-1: 2003

Protection category . . . . . IP 20, others or NEMA upon request

EMI . . . . . acc. to EN 55022, class A, optionally class B

MTBF . . . . . approx. 70,000 h @ 40 °C

acc. to MIL - HDBK - 217 E (notice 1)

Connector . . . . . terminals / bolts / bars

Marking . . . . . CE

## Options

### Input

- Inrush current limiting
- Reverse polarity protection for DC input

### Output

- Parallel operation
- Redundant operation
- Inhibit (remote on / off)
- Reducing of current limiting at high ambient temperature

### Signals

via open collector or relay contacts

- Power ok (input)
- DC ok (output)
- Sys-reset

### Programming

- Output voltage or current via
  - potentiometer
  - analog signal
  - interface RS232 or IEEE488

### Battery charger

- Temperature compensated charging voltage
- Automatic / manual selection of charging characteristic

### Monitoring

- Input / output voltage or current via
  - analog signal
  - interface RS232 or IEEE488

### Mechanics / environment:

- Digital V- and A-meter (see photo)
- Tropical protection
- Extended temperature range to -40 °C