Series C / B 2700

Features
- DC input: 18 - 380 V
- AC input: 115 / 230 V, 47 - 400 Hz
- DC output: 8 / ... / 250 V
- Continuous short circuit protection
- Overvoltage protection with auto restart
- Industrial grade components
- Compact and robust design

DC / DC Converters

AC / DC Converters

Battery Chargers

Assistance in table use:
1. Select the column for input voltage range.
2. Select the row for the appropriate output voltage.
3. The intersection of both results in the module required.

For example:
- Input voltage = 24 VDC
- Output voltage = 220 VDC @ 2 A
- Results in a C 2728 module.

1) input supply from PFC also suitable
### Specifications

#### Input
- **Voltage range**: see table, unit switches off at under- and overvoltage
- **No-load input power**: 5 - 6 W
- **Switch-on time**: 300 ms typical
- **Inrush current**: AC input: limited by thermistor
- **Hold-up time**: AC input: 10 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 (±10 %)**: 0.1 %
- **Load regulation (10 - 90 %)**: 0.2 %
- **Load transient (10-90-10 %)**: 6 % typical
- **Response time to ±1 %**: 2 - 3 ms
- **Turn-on rise time**: Soft-start, 100 ms typical
- **Ripple**: ≤ 1 % + 30 mV
- **Overload protection**: current limited to 105 - 110 % of Inom
- **Overvoltage protection**: OVP switches off module with automatic return to operation
- **Remote sense**: standard for C series, up to 10 % of Unom for output < 60 VDC, up to 6 V for output > 60 VDC

#### General
- **Efficiency**: 70 - 92 %
- **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**: natural convection
- **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. 120,000 h @ 40 °C acc. to MIL - HDBK - 217 E (notice 1)
- **Connector for eurocassette - std. design**: H 15
- **Marking**: CE

### Options

#### Input
- **Inrush current limiting for DC input**
- **Reverse polarity protection for DC input**
- **Autoranging for 115 / 230 VAC input**

#### Output
- **Parallel operation**
- **Redundant operation**
- **Inhibit (remote on / off)**

#### Signals
- **via open collector or relay contacts**
  - **Power ok (input)**
  - **DC ok (output)**

#### Programming
- **Output voltage or current via**
  - external potentiometer
  - analog signal
  - interface card RS232 or IEEE488 (external)

#### Battery charger
- **Temperature compensated charging voltage**
- **Automatic / manual selection of charging characteristic (external)**

#### Monitoring
- **Input / output voltage or current via**
  - analog signal
  - interface card RS232 or IEEE488 (external)

#### Mechanics / environment:
- **19" sub-rack for eurocassette**
- **Wall mount**
- **Increased mechanical strength**
- **Tropical protection**
- **Extended temperature range to −40 °C**