## Schaefer DC charger, 400-800V, 100kW-240kW versions available

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- AC input: 3-phase, 47 63 Hz
- DC output: Voltage and Current to match battery
- Output power 100-240kW
- Continuous short circuit protection
- Galvanically isolated DC output
- Over-voltage protection
- Thermal shutdown with auto restart

- Industrial grade components
- High efficiency through ZVS topology
- High power density
- Compact and robust design
- Parallel, redundant operation
- Input 3 phase contactors switch off unit within 100ms of emergency power off signal

I	n	g	u	t

- Voltage range	3 x 400V AC + 15%/	- 20% (ph-ph) uni	t switches off at
under- and overvoltage			

- Frequency . . . . . . . . . . . . 50/60 Hz
- No-load input power. . . . . . approx. 20 W
- Switch-on time . . . . . . . . . . 300 ms typical
- Inrush current ..... electronic inrush current limiting
- 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 %) . . . . approx. 2%
- Load transient (10-90-10 %) . . . 6 % typical
- Response time to ±1 % . . . . . . 20 ms typical
- Turn-on rise time . . . . . . . . . Soft-start, 300 ms typical
- 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. It can be re-started by pressing the reset push button.
  - Remote sensing . . . . . . . . . internally connected to the output.
  - Redundant operation . . . . . . . by decoupling diode.
- Parallel operation . . . . . . . current balancing by active current sharing with interrupt in case of faulty unit in parallel operation (CSI).
  - General
  - Efficiency . . . . . . . . . . . . . . . . . 90 %
  - Operating temperature. . . . . . –25 to +75 °C
  - Storage temperature . . . . . . . . -40 to +85 °C
- Humidity . . . . . . . . . . . up to 95 % RH, non-condensing + additional protection against moisture, humidity and/or unhygienic environmental conditions.
  - Cooling . . . . . . . . . forced cooling with temperature controlled fans.
  - Temperature load derating . . . . 2.5% / °C from 55 °C
  - Temperature coefficient . . . . . 0.02 % / °C typical
  - Switching frequency . . . . . approx. 20 kHz
  - Safety / Construction. . . . . . . acc. to DIN / EN 60950-1: 2003
  - Isolation resistance . . . . . . . > 10 M Ohm at 800V DC
  - Isolation voltage . . . . . . . . . acc. To EN 60950-1: 2003
  - Construction (safety) . . . . . . . acc. To EN 60950-1: 2003

## Last Updated Thursday, 26 April 2012 06:05

Earth leakage . . . . . < 3.5mA at 230VAC acc. To EN 60950</li>
Protection category . . . . . IP 20, others or NEMA upon request
EMC. . . . . . . . acc. to EN 55022, class A
MTBF(each unit) . . . . . . approx. 70,000 h @ 40°C acc. to MIL - HDBK - 217 E (notice 1)