SM6000 Series

6000 W DC POWER SUPPLIES



Models	Voltage range	Current range
SM 15 - 400	0 - 15 V	0 - 400 A
SM 30 - 200	0 - 30 V	0 - 200 A
SM 45 - 140	0 - 45 V	0 - 140 A
SM 60 - 100	0 - 60 V	0 - 100 A
SM 70 - 90	0 - 70 V	0 - 90 A
SM 120 - 50	0 - 120 V	0 - 50 A
SM 300 - 20	0 - 300 V	0 - 20 A
SM 600 - 10	0 - 600 V	0 - 10 A

Features

- Designed for long life at full power
- Excellent dynamic response to load changes
- Protected against all overload and short circuit conditions
- EMC surpasses CE requirements: low emission & high immunity
- Low audible noise: fans are temperature controlled

Functionalities

- Master / Slave parallel and series operation with voltage and current sharing
- Stacking is allowed, space between units is not
- required • High power system configuration from multiple units
- 19" rack mounting or for laboratory use (feet included)
- Remote sensing
- Interlock



Standards

- Power supply standard EN 61204-3
- Generic Emission EN 61000-6-3 (EN55022B)
- Generic Immunity EN 61000-6-2
- Safety EN 60950 / EN 61010
- Insulation input / output 3750 V_{ms} IP20
- Enclosure

APPLICATIONS & OPTIONS

Typical Applications

- Solar Inverter testing, PV-simulation
- Plasma chambers
- Hybrid car test systems
- ATE in industrial production lines

Available Options

Increased

Output Power

The conservatively

the same reliability.

rated unit allows to deliver

extra output power with

Automotive battery simulation

- Controlled battery (dis)charging
- Lasers

lower output capacitance. Excellent for laser applications, test sys-

tems or as current source with low parallel capacitance as used in plasma chambers.



alone automation. The sequencer is integrated in the Ethernet controller.

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lock (also for CV/CC-knobs) and a coarse or fine pitch adjustment depending on the turning speed.

- RS232 controller
- IEEE488 controller
- ISO AMP CARD isolated analog





and Interfaces Factory installed programming interfaces:



- Ethernet controller (incl. sequencer) • PROFIBUS controller CANBUS controller







: 380 / 400 / 415 V AC, optional 440 / 480V AC

V_{nom} line to line (48-62 Hz)

up to 90% (at full load) :

: from 0.8 mV_{rms} / 8 mV_{pp}

: from 2.5 mV (0-100% load step)

- Analog programming accuracy • Output voltage and current stability : 5.10-5 / 10.10-5
- MTBF : 500.000 hrs

Dimensions and Weight

Weight = 27 kg

• Active Power Factor Correction (PFC) : 0.98 (at 100% load)

Width = 19"

Height = 4 U

• Efficiency

Regulation

Recovery time

Specifications

• Output ripple and spikes

• Three phase input

- Operating ambient temperature :-20 to +50 °C
- δ DEI TA ELEKTRONIKA





generator or stand-



current can be increased by about 10%. Sequencer Arbitrary Waveform

At some derating, either the maximum

output voltage or the maximum output



SM6000 Series

- Driving PWM-controlled DC-motors
- Accurate current sources
- Aerospace and military equipment

High Speed Programming A 10 to 20 times higher

programming speed (down to 0.4 ms rise time at full load) and

High Voltage Isolation A higher output isolation allows series operation up to 1200 V.



Two-Quadrant **Output: Power Sink** Two quadrant operation maintains the output voltage constant regardless the output power is

positive or negative. Ideal for PWM-speed controlled DC-motors and ATE systems.



High Input Voltage

Higher input voltages possible for operation at line voltages of 440 V AC and 480 V AC (for USA).

Digital Voltage and Current Setting

Reliable, longlife digital encoders can be implemented at the front panel. Includes total front panel



Secured Voltage and Current Setting

For maximum security, the CV / CC settings can be adjusted with a screwdriver only and are protected with a plastic cap from accidental adjusting.