

SMWM-Series Wall-Mount power Supply



Construction:

The power supply is built into a powder coated metal enclosure designed for wall mounting and designed for continuous operation rated power. The connections for the AC input power, DC output copper bus bars, and controls terminals are located at the bottom of the wall mount enclosure. In addition to thorough attention to design and construction quality, the cooling system enables the power supply to work reliably with a long lifespan. The cooling air enters through air openings located on the wall-mount and a special designed Air Guiding System keeps the electronics isolated from the air flow. An Automatic Fan Speed Control adjusts the air flow to the required cooling, which reduces the wear of the cooling fans and reduced ambient noise.

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Main Components:

- Independent voltage and current limit controls
- EMC filter
- Power semiconductors for pulse amplitude modulation
- Electronics for constant current and voltage control
- Shunt

Protection Devices:

- Over current protection
- Short-circuit protection
- Over temperature supervision

System Interface:

- Analog DC volt meter, Option: Digital meter
- Analog DC amp meter, Option: Digital meter
- Potentiometer to set nominal DC voltage, 0 – 100 %
- Potentiometer to set nominal DC current, 0 – 100 %
- Selector Switch Rectifier “On/Off”

Technical Data:

Input voltage:	See Model*, 3Ph, 50-60Hz + GND
Power factor:	> 0.94
CE Mark:	Compliance for Europe
Duty factor:	100 %
Ripple voltage:	< 3 % across full output range
Setting:	0 - 100 % current and voltage
Control:	Constant current and voltage control
Control accuracy:	< 1%
Cooling:	Variable speed - Forced air cooled
Ambient temperature:	Up to 95 °F
Site altitude:	Up to 3280 ft. above sea-level
Dimensions:	19.3/ 11.8/ 35.9 (W/ D/ H) inches
Weight:	110 lbs. Approximately

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Applications:

Avionics Servicing: from the very smallest up to the largest business jets. The **SMWM-Series** can be adjusted from 0 to 30 volts DC. Typical range of voltages (12V, 24V and 28V)

Example 24V DC: Most DC powered aircraft only need between 24V DC to 28.5 V DC. The power supply can be adjusted output of 28.5 V DC. The **SMWM-Series** Can be adjusted anywhere within the range of Aviation service requirements.

MODELS AVAILABLE

Output Current	Output Voltage	Input Voltage	Model
0 to 200 Amps	0 to 45 VDC	480V, 3 phase, 50 / 60 Hz	SMWM-200-45 –3P-4
0 to 400 Amps	0 to 45 VDC	480V, 3 phase, 50 / 60 Hz	SMWM-400-45 –3P-4
0 to 550 Amps	0 to 45 VDC	480V, 3 phase, 50 / 60 Hz	SMWM-550-45 –3P-4
0 to 200 Amps	0 to 30 VDC	480V, 3 phase, 50 / 60 Hz	SMWM-200-30 –3P-4
0 to 650 Amps	0 to 30 VDC	480V, 3 phase, 50 / 60 Hz	SMWM-650-30 –3P-4
0 to 700 Amps	0 to 30 VDC	480V, 3 phase, 50 / 60 Hz	SMWM-700-30 –3P-4
0 to 800 Amps	0 to 30 VDC	480V, 3 phase, 50 / 60 Hz	SMWM-800-30 –3P-4
0 to 100 Amps	0 to 45 VDC	208– 230V, 1 phase, 50 / 60 Hz	SMWM-100-45 –1P-2
0 to 270 Amps	0 to 45 VDC	208– 230V, 1 phase, 50 / 60 Hz	SMWM-270-45 –1P-2
0 to 100 Amps	0 to 30 VDC	208– 230V, 1 phase, 50 / 60 Hz	SMWM-100-30 –1P-2
0 to 270 Amps	0 to 30 VDC	208– 230V, 1 phase, 50 / 60 Hz	SMWM-270-30 –1P-2

OPTIONS AVAILABLE

- Add an Aircraft cable with 28.5V oval plug AN225 in any length
- Digital Meter Package

CURRENT POWER LLC
1449 Jupiter Park Drive, STE 19, Jupiter FL 33458
Toll free: 855-861-7877 or 203-994-8408
www.CurrentPowerllc.com Sales@CurrentPowerllc.com

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