

RMQ Series

Modular Linear Power Supplies up to 4 in a Rack

Applications

The RMQ Series power supplies provide pure linear regulated DC power designed to be used in lab bench, system application, R&D and production test.

The RMQ Series provides full rated voltage or current at any setting without the need for derating.

These power supplies are provided with front panel binding posts and rear connector for ease in output wiring. The unit is also provided with remote sense in the rear connector for excellent regulation at the point of load. Optional interface via IEEE-488, LAN, RS485 and RS232 allows for remote control.



Features

- Digital Meters
- Remote Programmable
- Remote Sensing
- Series / Parallel Operation
- 1mV Ripple
- 1/4 Rack Modules
- 10 - Turn Voltage & Current Control
- Optional IEEE-488, LAN, RS485, RS232 Control
- Optional 4 modules in Rack Mount Tray
- Optional Rubber Feet on Single Stand-Alone Modules

MODEL NUMBER	OUTPUT		REGULATION			
	VOLTS	AMPS	LINE		LOAD	
			CV	CC	CV	CC
RMQ6-9A	0-6 V	0-9 A	0.01%	0.1%	0.01% or 1 mV	0.1%
RMQ10-6A	0-10 V	0-6 A	0.01%	0.1%	0.01% or 1 mV	0.1%
RMQ20-3.3A	0-20 V	0-3.3 A	0.01%	0.1%	0.01% or 2 mV	0.1%
RMQ40-2.5A	0-40 V	0-2.5 A	0.01%	0.1%	0.01% or 4 mV	0.2%
RMQ60-0.9A	0-60 V	0-0.9 A	0.01%	0.1%	0.01% or 4 mV	0.2%
RMQ125-0.5A	0-125 V	0-0.5 A	0.01%	0.1%	0.01% or 4 mV	0.2%
RMQ200-0.4A	0-200 V	0-0.4 A	0.01%	0.1%	0.01% or 4 mV	0.2%
RMQ400-0.25A	0-400 V	0-0.25 A	0.01%	0.1%	0.01% or 6 mV	0.5%

SEE FOLLOWING PAGE FOR SPECIFICATION



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Specifications

Input: 115 VAC $\pm 10\%$, 50/60 Hz Single Phase.
Optional: 220 VAC $\pm 10\%$, 50/60 Hz Single Phase.

Output: See specific model in table.
The output is floating and either side may be grounded.

Load Regulation: See specific model in table.
Regulation is for a full load step.

Line Regulation: See specific model in table. Regulation is for a line change from within specified input voltage range.

Ripple: $\leq 1\text{mV RMS}$.

Response Time: The output voltage is within regulation limits in less than 100 microseconds for a $\frac{1}{2}$ load step.
The output voltage will remain within regulation limits for input line step within specified voltage range.

Remote Sensing: Units provided with remote sense connectors at the rear for regulation at the point of load.

Series / Parallel Operation: Two or more units may be operated in series. Two units with the same voltage and current may be operated in parallel.

Temp. Coef.: $0.02\% / ^\circ\text{C}$.

Stability: Better than $0.05\%/8$ hours at constant line, load and temperature after $\frac{1}{2}$ hour warm up.

Operating Temperature: 0°C to $+50^\circ\text{C}$ at any combination of line, load and temperature without the need for external cooling.

Terminations: Circular connector is provided at the rear for output, sensing and ground.
5 Way binding posts are provided on the front panel for output and ground.

A 7' 3-wire line cord is provided for AC Input.

Protection: The power supply is protected by a fuse in the input line. The unit is provided with OVP, OCP, CV to CC mode and CC to CV mode.

Panel Controls: Digital voltmeter, digital ammeter, 10 turn voltage and current control, pilot light, ON/OFF switch and five way binding posts are provided.

The voltage and current controls are fully adjustable by means of 10 turn panel potentiometers.

Finish: The standard front panel finish is light blue. Chassis and cover are yellow-irridite.

Size: $5 \frac{1}{4}"$ H x $4 \frac{1}{8}"$ W x $20 \frac{1}{4}"$ D.

Four units can be mounted in a $5 \frac{1}{4}"$ x $19"$ rack mount tray.

Options

Option	Description
27	Chassis Slides (Available with 132 only)
108	RS232 Control with Readback
110	RS485 Control with Readback
112	IEEE-488 Control with Readback
123	RJ45 Control with Readback
132	RMQ $5 \frac{1}{4}"$ Rack Mount Assy (4 Position)

Connector Table for Multiple Modules

Power Supply Model	ME CONN Part #	PS Connector *	Mating Connector **
RMQ20-3.3	CO1464	PT02E-14-5S	PT06E-14-5PSR
RMQ20-3.3	CO1466	PT02E-14-5SW	PT06E-14-5PWSR
RMQ60-0.9	CO1468	PT02E-14-5SX	PT06E-14-5PXSR
RMQ60-0.9	CO1470	PT02E-14-5SY	PT06E-14-5PYSR

* Multiple position shell polarization to insure connectors can be mated in only one possible orientation

** Optional mating connector.

For more information, please visit us at www.mideastind.com
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