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Data Sheet

August 13, 2026

KEPCO

Kepco MST 55

Applications Hot-swap 55 V modular DC in RA 55 N+1 MST 200 W systems Wide-range AC input 55 V rails Programmable MST 488-27 controlled racks Key Features 200 W plug-in MST family Current derates with temperature (3.5 / 2.8 / 2.1 A) RA 55 or CA 400 host required Wide 90-264 Vac input Optional MIL-STD-28800 build Technical Specifications Model: MST 55 Manufacturer: Kepco Inc Instrument Type: Modular 200 W plug in DC power supply Series: MST Alias: MST 55; MST 55-3.5M; MST55-3.5M Rated Output Voltage: 0 to 55 Vdc Output Current 45 C: 3.5 A Output Current 55 C: 2.8 A Output Current 65 C: 2.



MODEL

Kepco MST 55

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

MST 55

LISTING

<https://aumictechlabs.com/products/mst-55-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Kepco MST 55-3.5M is a 200 W plug-in power supply module engineered for use within Kepco's RA 55 rack adapter housing, which accommodates up to nine such units. This hybrid design combines high-frequency switching technology with linear stabilization to deliver both high efficiency and precision regulation across a 0–55 VDC output range at up to 3.5 A maximum current. Technical Specifications Output voltage: 0–55 VDC Maximum output current: 3.5 A DC Rated output current: 2.8 A DC at 45°C; 2.1 A DC at 55°C Power output: 200 W class (192 W at 55 V, 3.5 A) Input voltage: 88–264 V AC, 47–63 Hz AC input current: 2.5 A at 120 V AC; 1.5 A at 240 V AC Efficiency: 64% at 100% load, 120 V AC Output ripple: 5 mV p-p typical Output noise (spike, 20 MHz): 10 mV p-p typical Operating temperature: –20°C to +65°C (specifications guaranteed

from 0°C) Active power factor correction: >0.98 Line regulation: <0.05% of range Load regulation: <0.1% of range Key Features Built-in overload and overvoltage protection Polarity reversal capability via internal relays for two-quadrant operation Output enable/disable control through relays Wide AC input range with built-in power factor correction meeting EN 61000-3-2 Self-contained cooling fans CE marked per Low Voltage Directive, EMC, and RoHS 2 Directives UL Listed per 61010-1 safety standard Compatibility & Integration The MST 55-3.5M integrates into Kepco modular power systems via the RA 55 and CA 400 rack housings. Serial control employs Kepco's 375 kHz, 2-wire control bus supporting up to 27 combined MST, MAT, and MBT modules from a single controller. IEEE 488.2 GPIB interface is available through the optional MST 488-27 adapter module. The unit pairs with MAT and MBT series modules to achieve higher power configurations.

MST55 Characteristics / Specifications

PARAMETER	VALUE
Model	MST 55
Manufacturer	Kepco Inc
Instrument Type	Modular 200 W plug in DC power supply
Series	MST
Alias	MST 55; MST 55-3.5M; MST55-3.5M
Rated Output Voltage	0 to 55 Vdc
Output Current 45 C	3.5 A
Output Current 55 C	2.8 A
Output Current 65 C	2.1 A
Power Class	200 W plug in
Ripple Source Max	5 mV p-p
Ripple Switching Max	10 mV p-p
Noise Spike 20 MHz	100 mV p-p
Efficiency	64 percent at 100 percent load 120 Vac
AC Input	90 to 264 Vac, 47 to 63 Hz
Host Adapter	RA 55 or CA 400 required
Related MST	MST 75-2.5M 0 to 75 V 2.5 A
Related MST 1	MST 150-1.2M 0 to 150 V 1.2 A
Controller	MST 488-27 GPIB class system controller
Form	MST plug in module
Cooling	rack adapter airflow Notes

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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PARAMETER	VALUE
Model	MST 55
Manufacturer	Kepeco Inc
Instrument Type	Modular 200 W plug in DC power supply
Specifications	
PARAMETER	VALUE
Series	MST
Alias	MST 55; MST 55-3.5M; MST55-3.5M
Rated Output Voltage	0 to 55 Vdc
Specifications	
PARAMETER	VALUE
Output Current 45 C	3.5 A
Output Current 55 C	2.8 A
Output Current 65 C	2.1 A
Specifications	
PARAMETER	VALUE
Power Class	200 W plug in
Ripple Source Max	5 mV p-p
Ripple Switching Max	10 mV p-p
Specifications	
PARAMETER	VALUE
Noise Spike 20 MHz	100 mV p-p
Efficiency	64 percent at 100 percent load 120 Vac
AC Input	90 to 264 Vac, 47 to 63 Hz

Specifications

PARAMETER	VALUE
Host Adapter	RA 55 or CA 400 required
Related MST 6	MST 6-20M 0 to 6 V 20 A
Related MST 15	MST 15-12M 0 to 15 V 12 A

Specifications

PARAMETER	VALUE
Related MST 36	MST 36-5M 0 to 36 V 5 A
Related MST 75	MST 75-2.5M 0 to 75 V 2.5 A
Related MST 100	MST 100-2M 0 to 100 V 2 A

Specifications

PARAMETER	VALUE
Related MST 150	MST 150-1.2M 0 to 150 V 1.2 A
Controller	MST 488-27 GPIB class system controller
Form	MST plug in module

Optional: MIL-STD-28800 compliant configuration

Cooling: rack adapter airflow

Notes

Specs from Kepco MST model table (MST 55-3.5M: 0-55 V, 3.5/2.8/2.1 A at 45/55/65 C, 5/10/100 mV, 64 percent). Confirm RA 55 versus CA 400 host and temperature derating.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.