

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

EMERSON / ARTESYN / ASTEC

Emerson / Artesyn / Astec MP1-3V-3V-3I-30-503 1000W Power Supply

The Emerson/Artesyn/Astec MP1-3V-3V-3I-30-503 is a 1000W power supply designed for reliable and efficient power conversion. It features multiple voltage outputs to support a variety of applications. Ideal for industrial and commercial use, this power supply ensures stable performance and long-term reliability.

**MODEL****Emerson / Artesyn
/ Astec MP1-3V-
3V-3I-30-503****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****MP1-3V-3V-3I-30-
503****LISTING**[https://aumictechlabs.c
om/products/mp1-3v-3
v-3i-30-503-2/](https://aumictechlabs.com/products/mp1-3v-3v-3i-30-503-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Emerson/Artesyn/Astec MP1-3V-3V-3I-30-503 is a 1000 W configurable power supply for industrial and commercial applications requiring multi-output DC conversion. Built on the MP1 chassis (2.5 × 8 × 11 inches), this unit accommodates up to seven intelligent DC-DC converter module slots, each delivering outputs from 2 V to 60 V. The -503 configuration includes three populated slots: two 42 V @ 12.5 A modules (Slot #1 and #2) and one 8 V @ 68 A module (Slot #3). Technical Specifications Input: 85–264 VAC, 47–63 Hz, 20 A internal fuse Slot #1: 42 V @ 12.5 A (Part Number 73-553-0048) Slot #2: 42 V @ 12.5 A (Part Number 73-553-0048) Slot #3: 8 V @ 68 A (Part Number 73-551-0012) Output voltage range: 2 V to 60 V (module-dependent)

Overall regulation: 0.4 % or 20 mV max Ripple (RMS): 0.1 % or 10 mV, whichever is greater Ripple (peak-to-peak): 1.0 % or 50 mV, whichever is greater Dynamic response: < 2 % or 100 mV with 25 % load step Recovery time: To within 1 % in 2 A Overload protection and voltage adjustment on all outputs Margining on single-output modules (± 4 –6 % nominal) Short-circuit protection with auto-recovery Input-OK signal with status indicator LED Global DC OK signal with status indicator Global and individual module inhibits/enable control Single-wire parallel (SWP) forced current sharing Meets MIL-HDBK mechanical shock and vibration specifications Typical Applications Multi-rail systems in telecommunications, data centers, industrial instrumentation, and power distribution requiring independent voltage rails with precise regulation and protective monitoring. Compatibility & Integration The seven-slot architecture permits field reconfiguration with alternative Artesyn/Astec converter modules. Global control signals enable synchronized startup, shutdown, and fault response across distributed loads.

MP13V3V3I30503 Characteristics / Specifications

PARAMETER	VALUE
Configuration Code	MP1-3V-3V-3I-30-503
Case Model	MP1
Total Power Low Line Class	1000 W maximum
Total Power High Line Class	1200 W maximum
Case Dimensions	63.5 mm x 203.2 mm x 279.4 mm
Case Size Inches	2.5 × 8 × 11
Available Slots	7
Input Voltage AC	85 to 264 VAC
Input Voltage DC	120 to 350 VDC
Input Frequency	47 to 63 Hz class also to 440 Hz on related sheets
Inrush Current	soft start limited
Efficiency Typical	70 to 80 percent at full case load
Power Factor Typical	0.99 meets EN61000-3-2
Turn On Time AC	1.5 s typical
Inhibit Enable Delay	150 ms typical
Emi Filter	CISPR 22 EN55022 LevelBLeakage Current Standard: 2.0 mA maximum at 240 VAC
Leakage Current Low Leakage Option	300 uA maximum at 240 VAC
Holdover Storage	20 ms minimum
Ac Ok Warning	greater than 5 ms before loss of regulation
Input Fuse Internal	20 A
Case Mass Class	5.0 lb empty case
Single Module Power Classes	210 W 360 W 600 W
Dual Module Power Class	144 W
Triple Module Power Class	36 W
Output Voltage Module Range Class	2 to 60 V singles

PARAMETER	VALUE
Remote Control	TTL global inhibit enable
Warranty Class	2 years

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	
Technical Specifications	
PARAMETER	VALUE
Configuration Code	MP1-3V-3V-3I-30-503
Case Model	MP1
Total Power Low Line Class	1000 W maximum
Total Power High Line Class	1200 W maximum
Case Dimensions	63.5 mm x 203.2 mm x 279.4 mm
Case Size Inches	2.5 x 8 x 11
Available Slots	7
Input Voltage AC	85 to 264 VAC
Input Voltage DC	120 to 350 VDC
Input Frequency	47 to 63 Hz class also to 440 Hz on related sheets
Inrush Current	soft start limited
Efficiency Typical	70 to 80 percent at full case load
Power Factor Typical	0.99 meets EN61000-3-2
Turn On Time AC	1.5 s typical
Inhibit Enable Delay	150 ms typical
Emi Filter	CISPR 22 EN55022 Level B
Leakage Current Standard	2.0 mA maximum at 240 VAC
Leakage Current Low Leakage Option	300 uA maximum at 240 VAC
Holdover Storage	20 ms minimum
Ac Ok Warning	greater than 5 ms before loss of regulation
Input Fuse Internal	20 A
Case Mass Class	5.0 lb empty case
Single Module Power Classes	210 W 360 W 600 W
Dual Module Power Class	144 W
Triple Module Power Class	36 W
Output Voltage Module Range Class	2 to 60 V singles

PARAMETER	VALUE
Remote Control	TTL global inhibit enable

Specifications

PARAMETER	VALUE
Configuration Code	MP1-3V-3V-3I-30-503
Case Model	MP1
Total Power Low Line Class	1000 W maximum
Total Power High Line Class	1200 W maximum
Case Dimensions	63.5 mm x 203.2 mm x 279.4 mm
Case Size Inches	2.5 x 8 x 11
Available Slots	7
Input Voltage AC	85 to 264 VAC
Input Voltage DC	120 to 350 VDC
Input Frequency	47 to 63 Hz class also to 440 Hz on related sheets
Inrush Current	soft start limited
Efficiency Typical	70 to 80 percent at full case load
Power Factor Typical	0.99 meets EN61000-3-2
Turn On Time AC	1.5 s typical
Inhibit Enable Delay	150 ms typical
Emi Filter	CISPR 22 EN55022 LevelBLEakage Current Standard: 2.0 mA maximum at 240 VAC
Leakage Current Low Leakage Option	300 uA maximum at 240 VAC
Holdover Storage	20 ms minimum
Ac Ok Warning	greater than 5 ms before loss of regulation
Input Fuse Internal	20 A
Case Mass Class	5.0 lb empty case
Single Module Power Classes	210 W 360 W 600 W
Dual Module Power Class	144 W
Triple Module Power Class	36 W
Output Voltage Module Range Class	2 to 60 V singles
Remote Control	TTL global inhibit enable

Warranty Class: 2 years

Notes

This file maps inventory configuration MP1-3V-3V-3I-30-503 to the published Artesyn modular platform

specifications. Installed rail voltages and currents are defined by the module codes in the configuration string.

Platform specs from Artesyn MP Series 400-1200 W configurable power supply datasheet. Individual MP1-... configuration strings select installed output modules only; rails and currents are defined by the module codes in the part number.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 15, 2026

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