

# MSA Tower

The Most Flexible Industrial Rectifier

AMERICAN PLATING POWER



Compact - Expandable

**MSA Tower** – The first rectifier which can be easily adapted to your needs.

Consisting of one Master module and at least one Power module, the expandable **MSA Tower** rectifier is a new milestone in the field of industrial rectifiers. The two-module **MSA Tower** 1.00 can be easily upgraded to an **MSA Tower** 5.00 consisting of 6 modules with a nominal output current of 6,000 A. Each module can be powered up by its own power input and is accommodated in a separate enclosure made of corrosion-resistant PS. The modules can be easily stacked on top of each other for upgrading the **MSA Tower** in a few minutes. The integrated EMC filter reduces the line noise emission of each module in order to meet the latest industrial standards in Europe regarding harmonic disturbances in the power grid. The energy efficiency of each module is above 90 %, ensuring a remarkably low energy consumption of the **MSA Tower**.

The Master is equipped with a digital control panel supporting local operation by the operator, as well as remote control operation via the line control system. Automatic load sharing between the modules and smart sharing to support redundant power concepts are further standard features in addition to the timer, Ah meter and ramp functions.

Available options such as the indicator lamp, buzzer, industrial Ethernet interface, stainless steel pedestal, and 3 x 220 V input ensure that the standard **MSA Tower** can be customized to your particular needs, if required.

The **MSA Tower** uses an industry-approved technology which has served the industry for more than 20 years by now and has so far been applied to almost 40,000 units across the world.

# MSA Tower

Compact • Modular • Expandable

MSA Tower 1.00



MSA Tower 2.00



MSA Tower 3.00



MSA Tower 4.00



MSA Tower 5.00



	1.00	2.00	3.00	4.00	5.00
Size	1.00	2.00	3.00	4.00	5.00
Output current at 16 V	2,000 A	3,000 A	4,000 A	5,000 A	6,000 A
Modules	2	3	4	5	6

## Unique Product Features and Advantages

- PS-based enclosure for each module for an easy upgrade by stacking
- Individual power input to each module
- One common copper output bar for + and – instead of individual wire connections for each module
- Digital control panel for local and remote control operation
- Standard analog remote control interface for an easy integration into the line control
- Standard ramp, timer and Ah meter functions
- DC overcurrent and short-circuit current limitation
- Automatic load sharing between the modules including smart sharing
- Upgradeable to support redundant power concepts

## Technical Data

Input voltage	3 x 380 – 480 V / 50 – 60 Hz
Power factor	above 0,95
Efficiency	above 90 %
Nominal output current	700 A to 6,000 A
Output voltage range	0-16 V; 20 V; 24 V; 30 V; 45 V
Ripple	below 3 %
Duty factor	100 % (24/7)
Operation mode	local and remote (0 - 10 V standard, digital as an option)
Ambient temperature	95°F
Cooling	air
Protection grade	NEMA 2
Colour	black
Dimensions	W/D/H = 21.3 / 21.7 / 15.6 in (Master) W/D/H = 21.3 / 21.7 / 12.1 in (Power)
Weight	110 lbs / module

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