

Tambourine

Power Supply



Up to
505 VAC

A Compact "Direct To Mains" Power Supply for Servo Applications

Offering You Top Servo Solutions

The **Tambourine** is Elmo's new power supply, designed to power multiple servo drives.

The **Tambourine** rectifies AC input voltage of up to 3 x 505 VAC, into filtered DC voltage with a continuous output current of 20 A (40 A peak).


Elmo
Motion Control

Motion Control Solutions Made **Small, Smart & Simple**

Tambourine Highlights

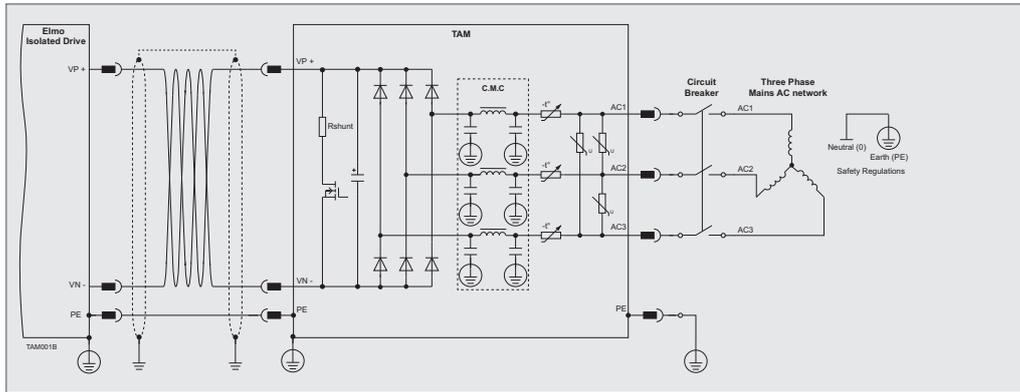
- Continuous output current: 20 A
- AC input
- Single- or three-phase operation
- Direct-to-mains operation capability
- High regenerative (braking) capability
- Inrush current limit
- EMC filtering "inside"
- UL approved and CE compliant



The Tambourine

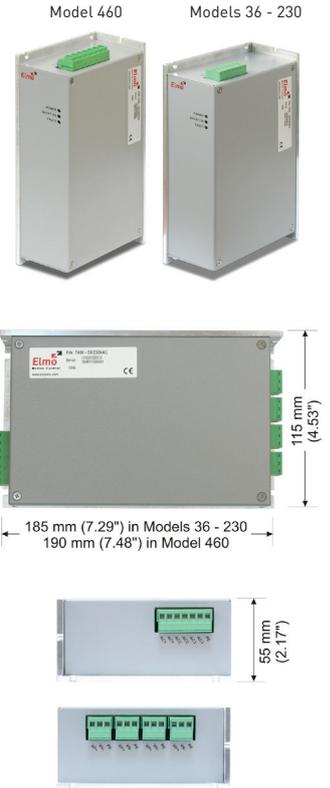
The Tambourine Power Supply complements the Elmo servo drives. It has the following features:

- Rectifies AC input voltage of up to 3 x 505VAC, into filtered DC voltage with a continuous output current of 20 A (40 A peak).
- The number of servo drives powered by a single Tambourine is limited only by the total power consumption of the servo drives, and not by the output current of the Tambourine.
- Operates directly from the mains when feeding isolated servo drives, or via an isolation transformer when non-isolated servo drives are employed.
- High capacitance to offer a low output voltage drop while operating from a single phase source.
- Regenerating braking capability that allows fast braking when there is high inertia.
- Built-in inrush current limiters that limit the power-on currents to low levels, reducing turn-on stress from the mains.
- Internal EMC filtering that eliminates the necessity for external devices, thereby complying with the CE EMC Directive.
- Panel mounted for simple and fast mounting.

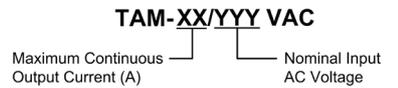


Model	TAM-20/36VAC	TAM-20/60VAC	TAM-20/120VAC	TAM-20/230VAC	TAM-20/460VAC
Nominal AC Input Voltage	1 x 36 VAC 3 x 36 VAC	1 x 60 VAC 3 x 60 VAC	1 x 120 VAC 3 x 120 VAC	1 x 230 VAC 3 x 230 VAC	1 x 460 VAC 3 x 460 VAC
Maximum AC Input Voltage	1 x 40 VAC 3 x 40 VAC	1 x 63 VAC 3 x 63 VAC	1 x 134 VAC 3 x 134 VAC	1 x 270 VAC 3 x 270 VAC	1 x 505 VAC 3 x 505 VAC
Maximum Continuous Output Power	1100 W	1800 W	3800 W	7600 W	14000 W
Maximum Peak Output Power	2200 W	3600 W	7600 W	15200 W	28000 W
Nominal DC Bus Output (at nominal AC Voltage)	50 VDC	85 VDC	170 VDC	325 VDC	560 VDC (for 400 VAC) 650 VDC (for 460 VAC)
Shunt Power (Peak)	1.8 kW	4.5 kW	5.5 kW	6 kW	6.3 kW
Continuous DC Output Current	20 A	20 A	20 A	20 A	20 A
Peak DC Output Current	40 A	40 A	40 A	40 A	40 A
Compatibility with Elmo's Servo Drives	60 V drives	100 V drives	200 V drives	400 V drives	800 V drives
Dimensions	55 x 115 x 185 mm [2.17" x 4.53" x 7.29"]				

Dimensions



Part Number



Built-in Protection & Diagnostics

- "Shunt On" duty cycle limiter.
- Three diagnostic LEDs
 - Power on
 - Shunt on
 - Duty cycle limitation



Motion Control Solutions Made **Small, Smart & Simple**



Head Office: Elmo Motion Control Ltd. • Tel: +972 (3) 929-2300 • info-il@elmomc.com
 North America: Elmo Motion Control Inc. • Tel: +1 (603) 821-9979 • info-us@elmomc.com
 Europe: Elmo Motion Control GmbH • Tel: +49 (0) 7720-8577 60 • info-de@elmomc.com
 APAC: Elmo Motion Control (South Korea) • Tel: +82-31-698-2010 • info-asia@elmomc.com
 China: Elmo Motion Control Technology (Shanghai) Co. Ltd. • Tel: +86-21-3251-6651 • info-asia@elmomc.com