

TAMBOURINE-20

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The Tambourine (**TAM-20**) is Elmo's compact, direct-to-mains power supply, designed for multiple servo drives.

[Physical Specifications](#)

The Tambourine (TAM-20) is Elmo's compact, direct-to-mains power supply, designed for multiple servo drives.

The Tambourine rectifies AC input voltage of up to 3 x 528 VAC, into filtered DC voltage with a continuous output current of 20 A (40 A peak). It also complements Elmo servo drives that do not include an integrated power supply.

Learn more about Elmo's Power Supply and read our white paper.

Features:

- Rectifies AC input voltage of up to 3 x 528 VAC, 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

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Standards:

- [Standards Compliance](#)
- [CE Declaration](#)

Product Drawings:

- [3D IGES Format - Model 36 - 230](#)
- [3D STEP Format - Model 36 - 230](#)
- [3D IGES Format - Model 480](#)

Tambourine Documentation

- [Installation Guide](#)
- [Brochure](#)

devices, thereby complying with the CE EMC Directive.

- Panel mounted for simple and fast mounting.
- Built-in Protection & Diagnostics:
- “Shunt On” duty cycle limiter
- Three diagnostic LEDs: Power on, Shunt on, Duty cycle limitation

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

Electrical Specifications

Catalog Number and Configurations

Power Supply	TAM-20/36VAC	TAM-20/60VAC	TAM-20/120VAC	TAM-20/230VAC	TAM-20/420VAC	TAM-20/480VAC
Nominal Input AC Voltage	1×36 VAC 3×36 VAC	1×60 VAC 3×60 VAC	1×120 VAC 3×120 VAC	1×230 VAC 3×230 VAC	3×420 VAC	3×480 VAC
Max Input AC Voltage	1×38 VAC (L-N) 3×38 VAC (L-L)	1×61 VAC (L-N) 3×61 VAC (L-L)	1×131 VAC (L-N) 3×131 VAC (L-L)	1×270 VAC (L-N) 3×270 VAC (L-L)	3×470 VAC (L-L)	3×528 VAC (L-L)
Max Output Power Cont.	1100 W	1800 W	3800 W	7600 W	13000 W	14000 W
Max Output Power Peak	2200 W	3600 W	7600 W	15200 W	26000 W	28000 W
Nominal DC bus Output (at nominal AC Voltage)	50 VDC	85 VDC	170 VDC	325 VDC	560 VDC (for 400 VAC) 594 VDC (for 420 VAC)	560 VDC (for 400 VAC) 678 VDC (for 480 VAC)
Shunt Power (Peak)	1.8 kW	4.5 kW	5.5 kW	6 kW	5.5 kW	6.7 kW
DC Output Cont. Current	20 A	20 A	20 A	20 A	20 A	20 A
DC Output Peak Current	40 A	40 A	40 A	40 A	40 A	40 A
Mating Drives	XXX-YY/60	XXX-YY/100	XXX-YY/200	XXX-YY/400	XXX-YY/700	XXX-YY/800
Weight	1155 gr	1155 gr	1155 gr	1155 gr	1155 gr	1155 gr