

# Power Supplies

## Energized to Perform

Elmo offers three distinct power supply unit to cover a wide range of servo drives, rectifying AC input voltage of up to 3 x 528 VAC and producing continuous output current of up to 20A, 30A and 100A, respectively.

Tambourine Power Supply	TAM-20/XXX VAC	TAM-30/XXX VAC	TAM-100/XXX VAC
Nominal Input AC Voltage	36 - 480 VAC	120 - 480 VAC	120 - 480 VAC
Max. Input AC Voltage	Up to 3x 528 VAC	Up to 3x 528 VAC	Up to 3x 528 VAC
Max. Output Power Cont.	Up to 14 kW	Up to 22.5 kW	Up to 75 kW
Max. Output Power Peak	Up to 28 kW	Up to 45 kW	Up to 150 kW
Shunt Power (Peak)	Up to 6.7 kW	Up to 6.7 kW	Up to 23 kW
DC Output Cont. Current	20 A	30 A	100 A
DC Output Peak Current	40 A	60 A	200 A
Operating Temperature	0° C - 40° C	0° C - 40° C	0° C - 40° C
Weight g (oz)	1155 gr	1156 gr	5 kg
Dimensions mm (in)	190 x 115 x 55 mm (7.48" x 4.53" x 1.18")	190 x 115 x 55 mm (7.48" x 4.53" x 1.18")	345 x 136 x 152 mm (13.58" x 5.35" x 5.98")

## Tambourine Power Supply Technical Features

- Designed to power multiple servo drives
- Single-phase or three-phase operation
- Direct-to-mains operation capability
- High regenerative (braking) capability
- Inrush current limit
- "Internal" EMC filtering
- UL approved and CE compliant



# Certified is standard, anything else is neither



**EtherCAT**  
Conformance tested

Ethernet for Control Automation Technology (EtherCAT) is the leading protocol for state-of-the-art control of industrial machinery in distributed networks. With our Gold Line servo drives fully EtherCAT compliant, Elmo is among a handful of certified companies to have passed rigorous EtherCAT conformance testing.



**CANopen**

Elmo fully supports the CANopen protocol (specification EN 50325-4) which enables standardized control in embedded systems for an extensive range of applications.



It Must Be Certified or it's Not STO

Elmo's Gold Line of servo drives support Safe Torque Off (STO) with the highest safety standards:

- IEC 61800-5-2:2007 SIL3
- EN ISO 13849-1:2008 Cat 3, PL e
- EN 61508-1:2010 SIL3
- EN 61508-2:2010 SIL3
- EN 61508-3:2010 SIL3
- IEC / EN 61800-5-1



Elmo products are fully compliant with UL standards, including:

- UL 61800-5-1 (Adjustable speed electrical power drive systems)
- UL 508C (Power Conversion Equipment)
- UL 840
- UL 60950 (Safety of Information Technology Equipment)
- CSA C22.2 (Industrial Control Equipment)



**EMC**

- EN 61800-3
- EN 55011
- IEC 61000-4-x
- IEC 61326-3-1



**Environmental Testing International Standard**

- IEC 60068-2-X

Specification	Details
Approved IEC60068-2-78	Environmental testing - Damp heat, steady state
Approved IEC60068-2-6	Environmental testing - Vibration (sinusoidal)
Approved IEC60068-2-2	Environmental testing - Dry heat
Approved IEC60068-2-27	Basic environmental testing procedures - Shock

