From: _____ Fax: _____

Email: _____

Request for QUOTATION from AMERACE

Fax +1 905 882 8014

Transformer Technology

All transformers use the same technology, as listed under "Common Specifications" below.
In addition, you may choose any of the following options. Please be sure to complete each section.

Power Rating

☐ 30W ☐ 45W ☐ 65W ☐ 100W ☐ 150W
☐ 200W ☐ 250W ☐ 300W ☐ 400W ☐ 500W ☐ Other_____W

Frequency

☐ 50 Hz ☐ 60 Hz ☐ 50/60 Hz (more expensive)

Primary lead length

☐ 0,6 meter ☐ Other _____ meters (minimum 0,3, maximum ?)

Primary Connectors

First lead ☐ FAA Style 2 plug ☐ FAA Style 9 receptacle ☐ None
Second lead ☐ FAA Style 2 plug ☐ FAA Style 9 receptacle ☐ None


Secondary lead length

☐ 1,2 meters ☐ Other _____ meters (minimum 0,3, maximum ?)

Secondary Connectors

☐ FAA Style 7  ☐ FAA Style 8  ☐ None

Primary Current

☐ 4A ☐ 6A ☐ 6,6A ☐ 8,3A ☐ 12A ☐ 16,6A ☐ 20A ☐ Other_____A

Secondary Current

☐ 4A ☐ 6A ☐ 6,6A ☐ 8,3A ☐ 12A ☐ 16,6A ☐ 20A ☐ Other_____A

Earth/Ground Connection?

☐ No ☐ Yes

If yes, ☐ Standard Hardware  ☐ Lay-in Style Hardware 

Common Specifications

Construction

Core	Flat laminations (E&I) of high grade grain oriented silicon steel for a long, stable life.
Encapsulant	TPR rubber (also known as TPV, TPE) • Much higher dielectric strength and lower water absorption than older materials such as epoxy, neoprene, or polychloroprene. • Minimal swelling in the presence of hydrocarbons, unlike neoprene, polychloroprene, etc.
Encapsulation process	Injection molding for maximum consistency of encapsulation, yielding exceptionally low leakage currents. Vacuum drawing prior to injection prevents air pockets inside. A far superior process to compression or transfer molding, or pouring.
Winding	Magnet wire on a plastic bobbin, specifically designed to electrically isolate the primary and secondary windings for maximum safety.
Connector pins and sockets	Tin plated for corrosion resistance
Primary cables	Cable is AWG #8 (8,3 mm^2) Type C TPR for maximum reliability
Secondary cable	Cable is AWG 2/12 (3,3 mm^2)
Material compatibility	Transformer body, cables, and connectors are all molded of TPR for perfect bonding.
Waterproofness	Amerace® transformers are designed and manufactured to operate submerged in water indefinitely.

Electrical

Insulation Level	5000 V RMS
Insulation Resistance	• Minimum 7500 Megohms (tested hot with 15 kV DC) • Typical 150,000 Megohms • Much higher than that required by FAA
Open Circuit Voltages	• Less than 3 times the full load RMS value in all cases, generally much lower, when tested with sine waves.
Efficiencies	85% to 95% depending on the power rating
Power Factor	> 0,97 for all
Ratio	Flat response load curves for constant lamp brilliancy and long life
Testing	• All units (100%) are hipotted and their ratio confirmed • All ratio testing done with the appropriate frequency, 50Hz or 60 Hz, for precision. No "conversion factors" used.

Environmental

Operating Temperature Range	-55°C to +65°C
Contaminant resistance	Suitable for areas contaminated with most oils, aircraft fuels, soil acids and alkalis, and deicing fluids. Resistant to UV exposure and ozone.

Installation Options

All types, including above ground, in concrete or other non-metallic pits, in metal cans, or direct buried.