

BUCK-BOOST TRANSFORMERS

Step Up or Step Down Voltages

Product

Pioneer manufactures a comprehensive line of Buck-Boost transformers for line voltage and low voltage applications.

Our Buck-Boost transformers are low voltage isolation transformers that can be connected in an auto-transformer arrangement to provide a convenient and economical way to raise or lower single and three-phase voltages from 5 to 20%. The auto-transformer arrangement allows smaller and less expensive Buck-Boost transformers to supply large power loads.

Applications

- Economical for stepping voltages up or down
- Low voltage lighting applications
- Solve over/under voltage problems efficiently
- International voltage adaptation

Specifications

- Encapsulated with electrical grade resin
- 60 Hz standard
- Single phase Isolation transformer
 - 120 x 240V— 12/24V
 - 120 x 240V— 16/32V
 - 240 x 480V— 24/48V
- 135°C temperature rise
- 180°C insulation class
- NEMA3R-rated enclosures
- Heat-cured ASA-61 gray powder coat finish
- Cores of high quality electrical steel
- Three phase autotransformer configurations, using multiple single-phase units

Features, Functions, Benefits

- Slotted mounting holes for quick and easy installation
- Convenient wall mount design with lifting hooks for units 5 kVA and above



Standards

- Built in accordance with NEMA, ANSI, UL and CSA standards
- Seismic rated

Options and Accessories

Consult factory for more information

- Other sizes, voltages available
- 50/60 Hz options
- Copper windings
- CE Marked units available as custom

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Single-phase — 600V Class Isolation Transformers

kVA	120 x 240V—12/24V	120 x 240V—16/32V	240 x 480 —24/48V	Est. Ship Wt (lbs)
	Catalog Number	Catalog Number	Catalog Number	
.050	416-1100-000	NA	NA	4
.100	416-1101-000	416-1201-000	416-1401-000	5
.150	416-1111-000	416-1211-000	416-1411-000	6
.250	416-1121-000	416-1221-000	416-1421-000	8
.500	416-1131-000	416-1231-000	416-1431-000	12
.750	416-1141-000	416-1241-000	416-1441-000	17
1.0	416-1151-000	416-1251-000	416-1451-000	18
1.5	416-1161-000	416-1261-000	416-1461-000	27
2.0	416-1171-000	416-1271-000	416-1471-000	34
3.0	416-1181-000	416-1281-000	416-1481-000	58
5.0	416-1191-000	416-1291-000	416-1491-000	90
7.5	416-2101-000	416-2201-000	416-2401-000	144
10.0	416-2111-000	416-2211-000	416-2411-000	178

Subject to change without notice. Consult factory if dimensions are critical.

Selected examples of boosting units available

	Low Voltage	High Voltage	Low Voltage	High Voltage	Low Voltage	High Voltage
Single Phase Voltages	100	120	95	120	200	240
	109	120	106	120	230	276
	120	132	120	136	240	288
	120	144	120	152	437	480
	208	230	208	236	457	480
	218	240	212	240	480	504
	240	252	225	240	480	528
	240	264	240	272		
Three Phase Open Delta Voltages (Requires 2 Transformers)	208	230	208	236	200	240
	218	240	212	240	230	253
	229	240	225	240	230	276
	240	252	240	272	240	288
	240	264			437	480
					457	480
					480	504
					480	528
Three Phase Wye Voltages (Requires 3 Transformers)	173	208	164	208	346	416
	189	208	183	208	398	438
	208	229	208	235	398	478
	208	249	208	263	416	498
	378	416	367	416		
	397	416	390	416		
	416	437	416	443		
	416	457	416	471		

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