

Industrial Grade Step-Up or Step-Down Transformers



Signal's DU and SU transformers have been designed to provide a multitude of step-up or step-down voltages to accommodate the various input voltages available throughout the world.

General Specifications

- Power 250 VA to 10 KVA (500 VA to 20 KVA possible if used as auto-transformer)
- Dielectric Strength 2500VRMS Hipot
- Primaries Dual/tapped primaries: Parallel connected (104V, 110V, 120V 50-500 Hz) Series connected (208V, 220V, 230V, 240V - 50-500 Hz)
- Secondaries Dual/tapped secondaries: DU Series

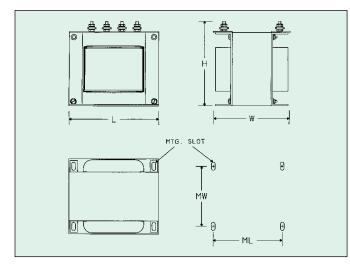
Parallel connected (104V, 110V, 120V - 50-500 Hz) Series connected (208V, 220V, 230V, 240V - 50-500 Hz)

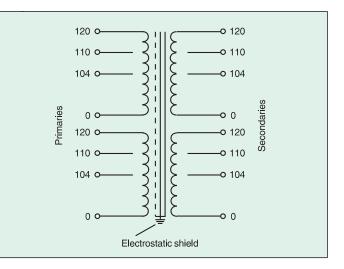
- Electrostatic Shield 2 mil thick copper foil connected to ground. The connection may be opened if an ungrounded shield is desired.
- Terminals Plated brass screw type terminals
- Insulation Class A insulation (105°C)

As shown on the schematic diagram the "DU" line is designed with dual primaries and secondaries. All four windings are identically rated at 0/104/110/120 volts. This permits series or parallel connections on either primary or secondary. Therefore, a nominal 110 to 110 volt, 220 to 220 volt, 110 to 220 volt, or 220 to 110 volt transformer can be set up. The winding taps permit intermediate series ratings such as 208, 214, or 230 volts. It is also possible to make auto-transformer connections a primary group in series with a secondary group. Such nominal ratings as 440 to 220 volts or 220 to 440 volts can be set up, in addition to the standard ratings described above. A further advantage to auto-transformer connection is the fact that the KVA rating of a particular type is doubled.

Part No.	KVA	Series Secondaries		Parallel Secondaries			Meci	Mtg. &				
		Volts	Max. Amps	Volts	Max. Amps	L *	W *	H *	ML †	MW ‡	Term. Screw	Wgt
DU-1/4	1/4	0/208/220/240	1.1	0/104/110/120	2.2	5.31″ 134.9mm	4.25″ 107.9mm	5.25″ 133.4mm	4.37″ 111.1mm	2.50″ 63.5mm	#10	12 lbs 5.44 kg
DU-1/2	1/2	0/208/220/240	2.3	0/104/110/120	4.6	5.31″ 134.9mm	5.31″ 134.9mm	5.25″ 133.4mm	4.37″ 111.1mm	3.62″ 92.1mm	#10	18 lbs 8.16 kg
DU-1	1	0/208/220/240	4.5	0/104/110/120	9	7.56″ 192.1mm	6.25″ 158.8mm	7.37″ 187.3mm	6.75″ 171.5mm	4.12″ 104.8mm	1/4	33 lbs 14.97 kg
DU-2	2	0/208/220/240	9	0/104/110/120	18	7.56″ 192.1mm	8.25″ 209.6mm	7.37″ 187.3mm	6.75″ 171.5mm	6.00″ 152.4mm	1/4	56 lbs 25.40 kg
DU-3	3	0/208/220/240	14	0/104/110/120	28	7.56″ 192.1mm	9.25″ 234.9mm	7.37″ 187.3mm	6.75″ 171.5mm	7.00″ 177.8mm	1/4	70 lbs 31.75 kg
DU-5	5	0/208/220/240	23	0/104/110/120	46	7.56″ 192.1mm	10.75″ 273.1mm	7.37″ 187.3mm	6.75″ 171.5mm	8.50″ 215.9mm	1/4	89 lbs 40.37 kg
DU-7.5	7.5	0/208/220/240	31	0/104/110/120	62	9.00″ 228.6mm	10.75″ 273.1mm	8.00″ 203.2mm	7.50″ 190.5mm	6.50″ 165.1mm	1/4	105 lbs 47.63 kg
DU-10	10	0/208/220/240	41	0/104/110/120	82	9.00″ 228.6mm	13.00″ 330.2mm	8.00″ 203.2mm	7.50″ 190.5mm	9.00 228.6mm	1/4	150 lbs 68.04 kg

*Maximum † ± 0.6" (1.6mm) ‡ ± .12" (3.2mm)





If you don't see a specific part that meets your requirement, see page 31 for our custom magnetics design data sheet.



CALL: 516-239-5777 • FAX: (24hrs) 516-239-7208 500 Bayview Avenue, Inwood, New York 11096

Power Isolation Transformers



Industrial Grade Step-Up or Step-Down Transformers



Signal's DU and SU transformers have been designed to provide a multitude of step-up or step-down voltages to accommodate the various input voltages available throughout the world.

General Specifications

- Power 250 VA to 10 KVA (500 VA to 20 KVA possible if used as auto-transformer)
- Dielectric Strength 2500VRMS Hipot
- Primaries Dual/tapped primaries: Parallel connected (104V, 110V, 120V 50-500 Hz) Series connected (208V, 220V, 230V, 240V - 50-500 Hz)
- Secondaries Dual/tapped secondaries: SU Series

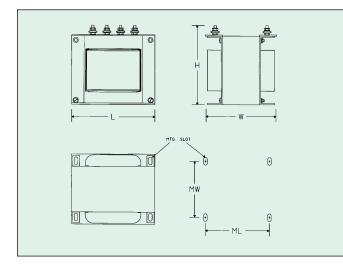
Parallel connected (208V, 220V, 240V - 50-500 Hz) Series connected (416V, 440V, 460V, 480V - 50-500Hz)

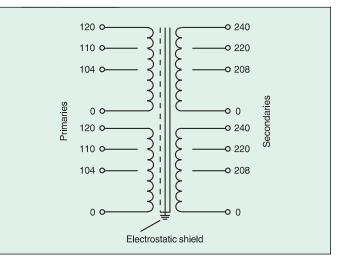
- Electrostatic Shield 2 mil thick copper foil connected to ground. The connection may be opened if an ungrounded shield is desired.
- Terminals Plated brass screw type terminals
- Insulation Class A insulation (105°C)

As shown on the schematic diagram the "SU" line is designed with dual primaries and secondaries. Two primary windings are identically rated at 0/104/110/120. Two secondary windings are identically rated at 0/208/220/240. This permits series or parallel connections on either primary or secondary. Therefore a nominal 110 to 220 volt, 220 to 440 volt, 110 to 440 volt, or 440 to 110 volt transformer can be set up. The winding tape permits intermediate series ratings such as 416, 428, and 460 volts. It is also possible to make auto-transformer connections by connecting a primary group in series with a secondary group. Such nominal ratings as 660 to 330 volts or 330 to 660 volts can be set up, in addition to the standard ratings described above. A further advantage to auto-transformer connection is the fact that the KVA rating of a particular type is doubled.

Part No.	KVA	Series Secondaries		Parallel Secondaries			Mech	Mtg. &				
		Volts	Max. Amps	Volts	Max. Amps	L *	W *	H *	ML †	MW ‡	Term. Screw	Wgt
SU-1/4	1/4	0/416/440/480	0.55	0/208/220/240	1.1	5.31″ 134.9mm	4.25″ 107.9mm	5.25″ 133.4mm	4.37″ 111.1mm	2.50″ 63.5mm	#10	12 lbs 5.44 kg
SU-1/2	1/2	0/416/440/480	1.15	0/208/220/240	2.3	5.31″ 134.9mm	5.31″ 134.9mm	5.25″ 133.4mm	4.37″ 111.1mm	3.62″ 92.1mm	#10	18 lbs 8.16 kg
SU-1	1	0/416/440/480	2.25	0/208/220/240	4.5	7.56″ 192.1mm	6.25″ 158.8mm	7.37″ 187.3mm	6.75″ 171.5mm	4.12″ 104.8mm	1/4	33 lbs 14.97 kg
SU-2	2	0/416/440/480	4.5	0/208/220/240	9	7.56″ 192.1mm	8.25″ 209.6mm	7.37″ 187.3mm	6.75″ 171.5mm	6.00″ 152.4mm	1/4	56 lbs 25.40 kg
SU-3	3	0/416/440/480	7	0/208/220/240	14	7.56″ 192.1mm	9.25″ 234.9mm	7.37″ 187.3mm	6.75″ 171.5mm	7.00″ 177.8mm	1/4	70 lbs 31.75 kg
SU-5	5	0/416/440/480	11.5	0/208/220/240	23	7.56″ 192.1mm	10.75″ 273.1mm	7.37″ 187.3mm	6.75″ 171.5mm	8.50″ 215.9mm	1/4	89 lbs 40.37 kg
SU-7.5	7.5	0/416/440/480	15.5	0/208/220/240	31	9.00″ 228.6mm	10.75″ 273.1mm	8.00″ 203.2mm	7.50″ 190.5mm	6.50″ 165.1mm	1/4	105 lbs 47.63 kg
SU-10	10	0/416/440/480	20.5	0/208/220/240	41	9.00″ 228.6mm	13.00″ 330.2mm	8.00″ 203.2mm	7.50″ 190.5mm	9.00 228.6mm	1/4	150 lbs 68.04 kg

*Maximum † ± 0.6" (1.6mm) ‡ ± .12" (3.2mm)





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