

HPS Fortress Features

HPS Fortress is an innovative design that provides the ideal solution for commercial applications where **quality, ease of installation, and low cost** are key.

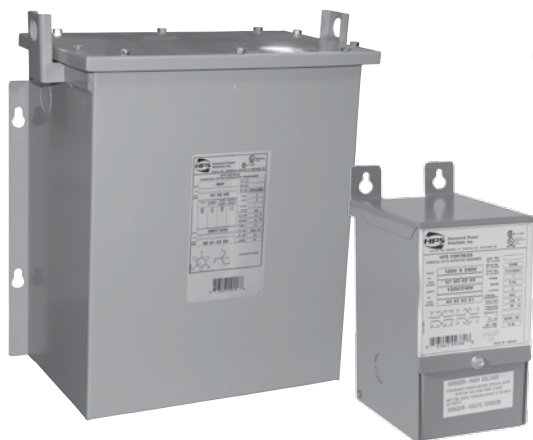
All units are encapsulated with electrical grade silica sand and resin compounds, which completely enclose the core and coil to seal out moisture, airborne contaminants and eliminates corrosion and deterioration.

Standard Features

Features	Single Phase	Three Phase
Voltage Groups	9 standard voltage groups	8 standard voltage groups
Ratings	From 50VA to 37.5kVA	From 2kVA to 75kVA
Shield	Standard shield from 750VA and up	Standard shield on all units
Frequency	60 Hz (50Hz standard on four voltage groups)	60Hz standard on all voltage groups
Connection	Standard via copper leads	
Enclosure	Type 3R	Type 3R (type 4/12 with optional gasket kit installed)
Quality Design	All units are encapsulated with electrical grade silica sand and resin compounds, which completely enclose the core and coil to seal out moisture, airborne contaminants and eliminates corrosion and deterioration.	
Conduit Knockouts	For rear and side entry into an easily accessible and roomy wiring compartment (no knock-outs on Stainless Steel enclosures).	
Installation	Wall mounting up to 25kVA, optional wall mounting bracket available on 37.5kVA. Wall mounting template supplied.	Wall mounting up to 9kVA, optional wall mounting bracket available on 15kVA, 30kVA and 45kVA. Wall mounting template supplied.
Warranty	All HPS standard catalog encapsulated transformers come with a 10 year limited* warranty	

*(Please refer to the HPS Warranty on page 26 for full details.)

Inexpensive
& easy

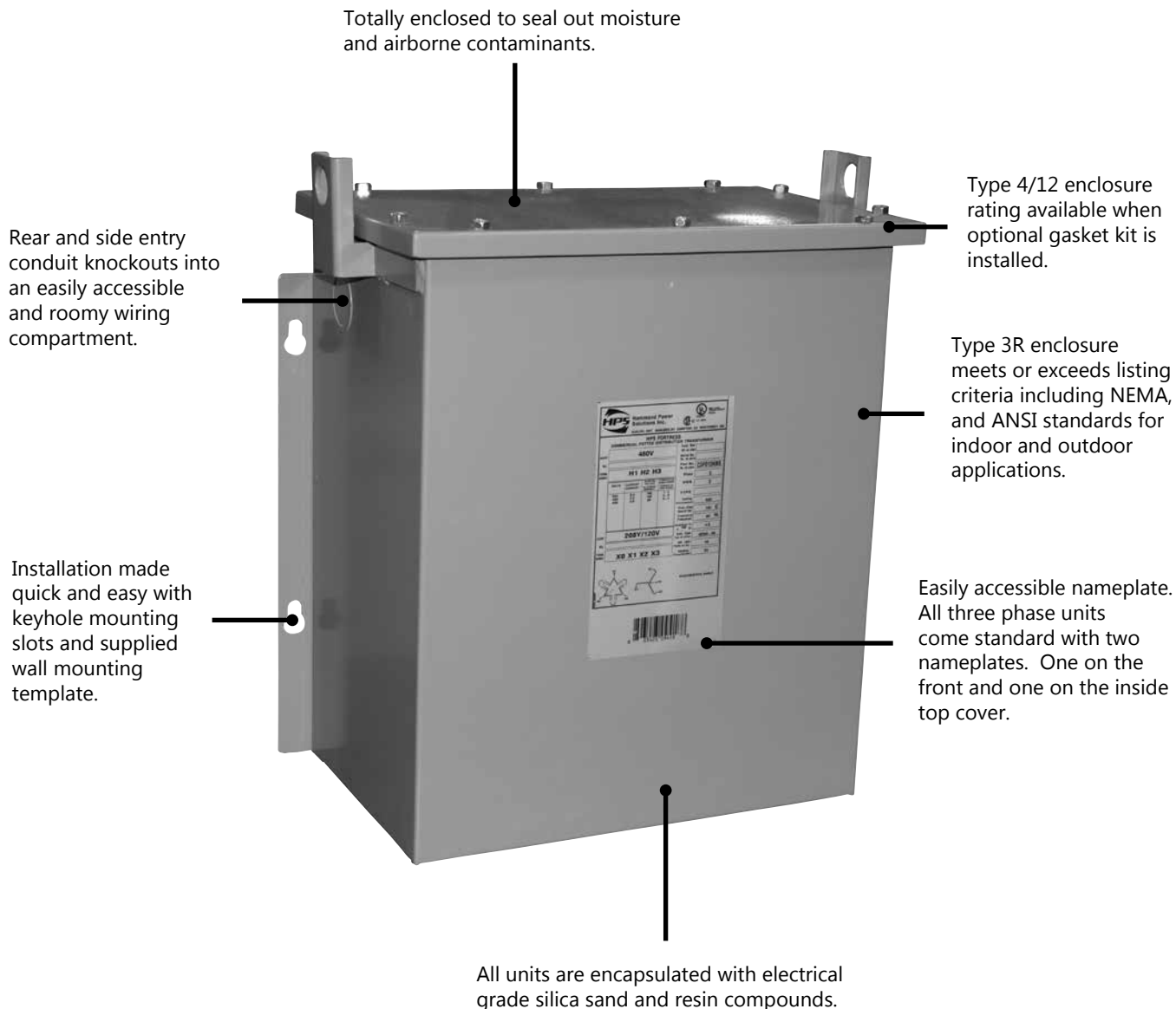


Applications

- Shopping Centers
- Schools
- Sports Complexes
- Office Buildings
- Lighting

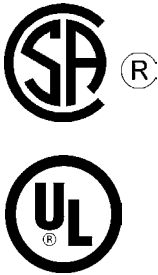


HPS Fortress Features continued...



Note: Picture displayed above is a standard three phase HPS Fortress units.

HPS FORTRESS™
COMMERCIAL ENCAPSULATED DISTRIBUTION TRANSFORMERS
SINGLE PHASE STANDARD SPECIFICATIONS



0.50 TO 1 KVA



1.5 TO 37.5 KVA



	.05 kVA to 1 kVA	1.5 kVA to 37.5 kVA
UL Listed	File: E50394	File: E50394
CSA Certified	File: LR3902	File: LR3902
Frequency	60 Hz (50/60 Hz)	60 Hz (50/60 Hz)
Insulation System	130°C (80°C rise) standard on all units	180°C (115°C rise) standard on all units.
Electrostatic Shield	Standard on 0.75 kVA and up.	Standard on all units.
Encapsulation	All units are encapsulated with electrical grade silica sand and resin compounds.	All units are encapsulated with electrical grade silica sand and resin compounds.
Enclosure Type	Type 3R	Type 3R
Enclosure Finish	ANSI 61 Grey, UL50	ANSI 61 Grey, UL50
Termination	Front accessible separate high and low voltage lead wires or copper tabs.	Front accessible separate high and low voltage lead wires or copper tabs.
Conduit Knock-Outs	Standard side and rear knock-outs on all units (no knock-outs on Stainless Steel enclosures).	Standard side and rear knock-outs on all units (no knock-outs on Stainless Steel enclosures).
Impedance	Typically 5 to 10%.	Typically 1 to 5%.
Mounting	Standard Wall Mounting.	Standard Wall Mounting up to 25kVA. Optional wall mounting kit for 37.5kVA units. Lifting provisions standard on units 5 kVA and up.
Sound Level	Meets NEMA ST-20 standards.	Meets NEMA ST-20 standards

Other voltages and kVA ratings not listed in this section are available upon request. Please contact customer service for details, price and availability.

SINGLE PHASE, NEMA 3R STYLE ENCLOSURE



347/380 Primary Volts  120/240 Secondary Volts

50/60 Hz

kVA	Catalog Number	Case Style (Pages 228 - 230)	Approx. Dimensions (Inches)			Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 243 - 258)
			Width	Depth	Height			
0.05	C1FC05JE	NQ0	3.69	5.06	7.19	7	W	SCD33
0.10	C1FC10JE	NQ0	3.69	5.06	7.19	7	W	SCD33
0.15	C1FC15JE	NQ0	3.69	5.06	7.19	8	W	SCD33
0.25	C1FC25JE	NQ0	3.69	5.06	7.19	9	W	SCD33
0.35	C1FC35JE	NQ1	4.31	5.56	7.19	14	W	SCD33
0.50	C1FC50JE	NQ1	4.31	5.56	7.19	14	W	SCD33
0.75	C1FC75JES	NQ2	5.06	4.56	9.30	23	W	SCD33
1	C1F1C0JES	NQ3	5.88	5.19	10.56	32	W	SCD33
1.5	C1F1C5JES	NQ3	5.88	5.19	10.56	35	W	SCD33
2	C1F002JES	NQ4	7.06	6.25	11.75	51	W	SCD33
3	C1F003JES	NQ5	10.00	7.75	17.25	98	W	SCD44
5	C1F005JES	NQ5	10.00	7.75	17.25	120	W	SCD44
7.5	C1F007JES	NQ6A	12.25	9.25	17.63	162	W	SCD44
10	C1F010JES	NQ6	12.25	9.25	20.88	194	W	SCD44

600 Primary Volts 120/240 Secondary Volts

60 Hz

kVA	Catalog Number	Case Style (Pages 228 - 230)	Approx. Dimensions (Inches)			Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 243 - 258)
			Width	Depth	Height			
0.05	C1FC05PE	NQ0	3.69	5.06	7.19	7	W	SCD4
0.10	C1FC10PE	NQ0	3.69	5.06	7.19	7	W	SCD4
0.15	C1FC15PE	NQ0	3.69	5.06	7.19	8	W	SCD4
0.25	C1FC25PE	NQ0	3.69	5.06	7.19	9	W	SCD4
0.35	C1FC35PE	NQ1	4.31	5.56	7.19	15	W	SCD4
0.50	C1FC50PE	NQ1	4.31	5.56	7.19	16	W	SCD4
0.75	C1FC75PES	NQ2	5.06	4.56	9.30	23	W	SCD4
1	C1F1C0PES	NQ3	5.88	5.19	10.56	24	W	SCD4
1.5	C1F1C5PES	NQ3	5.88	5.19	10.56	33	W	SCD4
2	C1F002PES	NQ4	7.06	6.25	11.75	42	W	SCD4
3	C1F003PES	NQ4	7.06	6.25	11.75	55	W	SCD4
5	C1F005PES	NQ5	10.00	7.75	17.25	120	W	SCD4
7.5	C1F007PES	NQ6A	12.25	9.25	17.63	148	W	SCD5
10	C1F010PES	NQ6	12.25	9.25	20.88	179	W	SCD5
15	C1F015PES	NQ7	14.50	10.75	21.38	265	W	SCD5
25	C1F025PES	NQ8	14.50	10.75	27.38	385	W	SCD5
37.5	C1F037PES	NQS10	21.88	18.50	31.00	598	F or W*	SCD5

*OPTIONAL WALL MOUNTING KIT REQUIRED.
REFER TO PAGE 240 FOR DETAILS.

Export Model



190/200/208/220/240¹ X 380/400/416/440/480¹ Primary Volts 120/240 Secondary Volts 50/60 Hz

kVA	Catalog Number	Case Style (Pages 228 - 230)	Approx. Dimensions (Inches)			Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram (Pages 243 - 258)
			Width	Depth	Height			
0.05	C1FC05XE	NQ0	3.69	5.06	7.19	7	W	SCD28
0.10	C1FC10XE	NQ0	3.69	5.06	7.19	7	W	SCD28
0.15	C1FC15XE	NQ0	3.69	5.06	7.19	9	W	SCD28
0.25	C1FC25XE	NQ0	3.69	5.06	7.19	10	W	SCD28
0.35	C1FC35XE	NQ1	4.31	5.56	7.19	15	W	SCD28
0.50	C1FC50XE	NQ1	4.31	5.56	7.19	16	W	SCD28
0.75	C1FC75XES	NQ2	5.06	4.56	9.30	24	W	SCD28
1	C1F1C0XES	NQ3	5.88	5.19	10.56	32	W	SCD28
1.5	C1F1C5XES	NQ4	7.06	6.25	11.75	37	W	SCD28
2	C1F002XES	NQ4	7.06	6.25	11.75	52	W	SCD28
3	C1F003XES	NQ5	10.00	7.75	17.25	97	W	SCD2
5	C1F005XES	NQ5	10.00	7.75	17.25	120	W	SCD2
7.5	C1F007XES	NQ6A	12.25	9.25	17.63	148	W	SCD2
10	C1F010XES	NQ6	12.25	9.25	20.88	179	W	SCD2

Note ¹: The primary voltage ratio of 240 or 480 is available at 60Hz only with a secondary voltage of approximately 130/262V.

FOR ACCESSORIES SEE PAGES 238 TO 241

