

# HPS Fortress™

## Encapsulated Transformers for Commercial Applications

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.

### APPROVALS

- UL Listed, file No. E50394
- CSA Certified file No. LR3902



### APPLICATIONS



Shopping Centers



Schools



Sports Complexes



Office Buildings



Lighting



Wastewater

### STANDARD FEATURES

| Features                 | Single Phase                                                                                                     | Three Phase                                                                                                                    |
|--------------------------|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <b>Voltage Groups</b>    | 9 standard voltage groups                                                                                        | 8 standard voltage groups                                                                                                      |
| <b>Ratings</b>           | From 50VA to 37.5kVA                                                                                             | From 2kVA to 75kVA                                                                                                             |
| <b>Shield</b>            | Standard shield from 750VA and up                                                                                | Standard shield on all units                                                                                                   |
| <b>Frequency</b>         | 60Hz (50Hz standard on four voltage groups)                                                                      | 60Hz standard on all voltage groups                                                                                            |
| <b>Connection</b>        | Standard via copper leads                                                                                        |                                                                                                                                |
| <b>Enclosure</b>         | Type 3R                                                                                                          | Type 3R (Type 4/12 with optional gasket kit installed)                                                                         |
| <b>Conduit Knockouts</b> | For rear and side entry into an easily accessible and roomy wiring compartment.                                  |                                                                                                                                |
| <b>Installation</b>      | 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. |
| <b>Warranty</b>          | All HPS standard catalog encapsulated transformers come with a 10 year limited* warranty                         |                                                                                                                                |

\*Please refer to the HPS standard Catalog Transformer Products Warranty for full details.

Installation made quick and easy with keyhole mounting slots and supplied wall mounting template.

Type 3R enclosure meets or exceeds listing criteria including NEMA and ANSI standards for indoor and outdoor applications.

Rear and side entry conduit knockouts into an easily accessible and roomy wiring compartment.



Totally enclosed to seal out moisture and airborne contaminants.

Easily accessible nameplate. All three phase units come standard with two nameplates. One on the front and one on the inside top cover.

All units are encapsulated with electrical grade silica sand and resin compounds.



\*Picture displayed above is of a standard single phase unit.

# SINGLE PHASE SPECIFICATIONS

120 x 240V Primary  
120/240V Secondary 60 Hz

| kVA Rating | Catalog Number | Case Style | Approx. Weight |
|------------|----------------|------------|----------------|
| 0.05       | C1FC05EE       | NQ0        | 7              |
| 0.10       | C1FC10EE       | NQ0        | 7              |
| 0.15       | C1FC15EE       | NQ0        | 8              |
| 0.25       | C1FC25EE       | NQ0        | 9              |
| 0.35       | C1FC35EE       | NQ1        | 15             |
| 0.50       | C1FC50EE       | NQ1        | 16             |
| 0.75       | C1FC75EE       | NQ2        | 23             |
| 1          | C1F1C0EE       | NQ3        | 24             |
| 1.5        | C1F1C5EE       | NQ3        | 33             |
| 2          | C1F002EE       | NQ4        | 42             |
| 3          | C1F003EE       | NQ4        | 55             |
| 5          | C1F005EE       | NQ5        | 96             |
| 7.5        | C1F007EE       | NQ6A       | 148            |
| 10         | C1F010EE       | NQ6        | 178            |

208 x 416V Primary  
120/240V Secondary 60 Hz

| kVA Rating | Catalog Number | Case Style | Approx. Weight |
|------------|----------------|------------|----------------|
| 0.05       | C1FC05GE       | NQ0        | 7              |
| 0.10       | C1FC10GE       | NQ0        | 7              |
| 0.15       | C1FC15GE       | NQ0        | 8              |
| 0.25       | C1FC25GE       | NQ0        | 9              |
| 0.35       | C1FC35GE       | NQ1        | 15             |
| 0.50       | C1FC50GE       | NQ1        | 16             |
| 0.75       | C1FC75GE       | NQ2        | 23             |
| 1          | C1F1C0GE       | NQ3        | 24             |
| 1.5        | C1F1C5GE       | NQ3        | 33             |
| 2          | C1F002GE       | NQ4        | 42             |
| 3          | C1F003GE       | NQ4        | 55             |
| 5          | C1F005GE       | NQ5        | 96             |
| 7.5        | C1F007GE       | NQ6A       | 148            |
| 10         | C1F010GE       | NQ6        | 178            |

120/208/240/277V Primary  
120/240V Secondary 60 Hz

| kVA Rating | Catalog Number | Case Style | Approx. Weight |
|------------|----------------|------------|----------------|
| 0.05       | C1FC05WE       | NQ0        | 7              |
| 0.10       | C1FC10WE       | NQ0        | 7              |
| 0.15       | C1FC15WE       | NQ0        | 8              |
| 0.25       | C1FC25WE       | NQ1        | 10             |
| 0.35       | C1FC35WE       | NQ2        | 17             |
| 0.50       | C1FC50WE       | NQ2        | 25             |
| 0.75       | C1FC75WE       | NQ2        | 23             |
| 1          | C1F1C0WE       | NQ3        | 24             |
| 1.5        | C1F1C5WE       | NQ3        | 37             |
| 2          | C1F002WE       | NQ4        | 52             |
| 3          | C1F003WE       | NQ5        | 65             |
| 5          | C1F005WE       | NQ5        | 108            |
| 7.5        | C1F007WE       | NQ6        | 171            |
| 10         | C1F010WE       | NQ6        | 183            |

240 x 480V Primary  
120/240V Secondary 60 Hz

| kVA Rating | Catalog Number | Case Style | Approx. Weight |
|------------|----------------|------------|----------------|
| 0.05       | C1FC05LE       | NQ0        | 7              |
| 0.10       | C1FC10LE       | NQ0        | 7              |
| 0.15       | C1FC15LE       | NQ0        | 8              |
| 0.25       | C1FC25LE       | NQ0        | 9              |
| 0.35       | C1FC35LE       | NQ1        | 15             |
| 0.50       | C1FC50LE       | NQ1        | 15             |
| 0.75       | C1FC75LE       | NQ2        | 23             |
| 1          | C1F1C0LE       | NQ3        | 24             |
| 1.5        | C1F1C5LE       | NQ3        | 33             |
| 2          | C1F002LE       | NQ4        | 42             |
| 3          | C1F003LE       | NQ4        | 55             |
| 5          | C1F005LE       | NQ5        | 96             |
| 7.5        | C1F007LE       | NQ6A       | 148            |
| 10         | C1F010LE       | NQ6        | 179            |
| 15         | C1F015LE       | NQ7        | 265            |
| 25         | C1F025LE       | NQ8        | 385            |
| 37.5       | C1F037LE       | NQS10      | 598            |

277V Primary  
120/240V Secondary 50/60 Hz

| kVA Rating | Catalog Number | Case Style | Approx. Weight |
|------------|----------------|------------|----------------|
| 0.05       | C1FC05CE       | NQ0        | 7              |
| 0.10       | C1FC10CE       | NQ0        | 7              |
| 0.15       | C1FC15CE       | NQ0        | 8              |
| 0.25       | C1FC25CE       | NQ0        | 9              |
| 0.35       | C1FC35CE       | NQ1        | 15             |
| 0.50       | C1FC50CE       | NQ2        | 15             |
| 0.75       | C1FC75CES      | NQ2        | 23             |
| 1          | C1F1C0CES      | NQ3        | 24             |
| 1.5        | C1F1C5CES      | NQ3        | 33             |
| 2          | C1F002CES      | NQ4        | 42             |
| 3          | C1F003CES      | NQ4        | 55             |
| 5          | C1F005CES      | NQ5        | 96             |
| 7.5        | C1F007CES      | NQ6A       | 148            |
| 10         | C1F010CES      | NQ6        | 178            |

277/480V Primary  
208/277V Secondary 50/60 Hz

| kVA Rating | Catalog Number | Case Style | Approx. Weight |
|------------|----------------|------------|----------------|
| 0.05       | C1FC05HR       | NQ0        | 7              |
| 0.10       | C1FC10HR       | NQ0        | 8              |
| 0.15       | C1FC15HR       | NQ0        | 11             |
| 0.25       | C1FC25HR       | NQ1        | 12             |
| 0.35       | C1FC35HR       | NQ2        | 15             |
| 0.50       | C1FC50HR       | NQ2        | 18             |
| 0.75       | C1FC75HRS      | NQ3        | 25             |
| 1          | C1F1C0HRS      | NQ3        | 31             |
| 1.5        | C1F1C5HRS      | NQ4        | 39             |
| 2          | C1F002HRS      | NQ4        | 54             |
| 3          | C1F003HRS      | NQ5        | 80             |
| 5          | C1F005HRS      | NQ6        | 156            |
| 7.5        | C1F007HRS      | NQ6        | 188            |
| 10         | C1F010HRS      | NQ6        | 179            |

347/380V Primary  
120/240V Secondary 50/60 Hz

| kVA Rating | Catalog Number | Case Style | Approx. Weight |
|------------|----------------|------------|----------------|
| 0.05       | C1FC05JE       | NQ0        | 7              |
| 0.10       | C1FC10JE       | NQ0        | 7              |
| 0.15       | C1FC15JE       | NQ0        | 8              |
| 0.25       | C1FC25JE       | NQ0        | 9              |
| 0.35       | C1FC35JE       | NQ1        | 14             |
| 0.50       | C1FC50JE       | NQ1        | 14             |
| 0.75       | C1FC75JES      | NQ2        | 23             |
| 1          | C1F1C0JES      | NQ3        | 32             |
| 1.5        | C1F1C5JES      | NQ3        | 35             |
| 2          | C1F002JES      | NQ4        | 51             |
| 3          | C1F003JES      | NQ5        | 89             |
| 5          | C1F005JES      | NQ5        | 106            |
| 7.5        | C1F007JES      | NQ6A       | 162            |
| 10         | C1F010JES      | NQ6        | 194            |

Export\* Primary  
120/240V Secondary 50/60 Hz

| kVA Rating | Catalog Number | Case Style | Approx. Weight |
|------------|----------------|------------|----------------|
| 0.05       | C1FC05XE       | NQ0        | 7              |
| 0.10       | C1FC10XE       | NQ0        | 7              |
| 0.15       | C1FC15XE       | NQ0        | 9              |
| 0.25       | C1FC25XE       | NQ0        | 10             |
| 0.35       | C1FC35XE       | NQ1        | 15             |
| 0.50       | C1FC50XE       | NQ1        | 16             |
| 0.75       | C1FC75XES      | NQ2        | 24             |
| 1          | C1F1C0XES      | NQ3        | 32             |
| 1.5        | C1F1C5XES      | NQ4        | 37             |
| 2          | C1F002XES      | NQ4        | 52             |
| 3          | C1F003XES      | NQ5        | 89             |
| 5          | C1F005XES      | NQ5        | 96             |
| 7.5        | C1F007XES      | NQ6A       | 148            |
| 10         | C1F010XES      | NQ6        | 179            |

600V Primary  
120/240V Secondary 60 Hz

| kVA Rating | Catalog Number | Case Style | Approx. Weight |
|------------|----------------|------------|----------------|
| 0.05       | C1FC05PE       | NQ0        | 7              |
| 0.10       | C1FC10PE       | NQ0        | 7              |
| 0.15       | C1FC15PE       | NQ0        | 8              |
| 0.25       | C1FC25PE       | NQ0        | 9              |
| 0.35       | C1FC35PE       | NQ1        | 15             |
| 0.50       | C1FC50PE       | NQ1        | 16             |
| 0.75       | C1FC75PES      | NQ2        | 23             |
| 1          | C1F1C0PES      | NQ3        | 24             |
| 1.5        | C1F1C5PES      | NQ3        | 33             |
| 2          | C1F002PES      | NQ4        | 42             |
| 3          | C1F003PES      | NQ4        | 55             |
| 5          | C1F005PES      | NQ5        | 96             |
| 7.5        | C1F007PES      | NQ6A       | 148            |
| 10         | C1F010PES      | NQ6        | 179            |
| 15         | C1F015PES      | NQ7        | 265            |
| 25         | C1F025PES      | NQ8        | 385            |
| 37.5       | C1F037PES      | NQS10      | 598            |

\*Primary = 190/200/208/220/240' X 380/400/416/440/480'

Note\*: The primary voltage ratio of 240V and 480V is available at 60 Hz only with a secondary voltage of approximately 130/260V