

## Athena Frequency Converter Technical Specifications

| MODEL  |  | AFC33-175K  |
|--|--|---|
| CAPACITY KVA   |  | 175 KVA   |
| INPUT  | Voltage<br>(select one individual voltage) | 3 Phase Delta 220/380/460 ± 20%<br>3 Phase Wye 190/200/208/220/230/240V ± 20%<br>3 Phase Wye 380/400/415/440/460/480V ± 20%                   |
|  | Frequency                                  | 47 - 63 Hz (400 Hz. Optional)   |
|  | Power Walk In                              | 0-100%: 20 seconds  |
| OUTPUT   | Voltage<br>(select one individual voltage) | 3 Phase Delta 220/380/460V<br>3 Phase Wye 190/200/208/220/230/240V<br>3 Phase Wye 380/400/415/440/460/480V<br>(± 15% adjustable from nominal) |
|  | Voltage Regulation                         | ± 1% at Linear Load   |
|  | Phase Shift (unbal. load)                  | < 0.5 Deg.  |
|  | Frequency (select one)                     | 50 or 60Hz ± 0.1Hz<br>(Optional: 400Hz.)<br>(Optional: Switch Selectable 50/60Hz.)<br>(Optional: Frequency Adjustable ±10% from nominal)      |
|  | Power Factor                               | 0.8   |
|  | Distortion (THD)                           | < 2.0% (Linear Load)  |
|  | Crest Factor                               | 3:1   |
|  | Overload Capacity                          | 125% for 15 Minutes, 150% for 10 Minutes,<br>> 150% for 1 minute.   |
| Efficiency   | >= 95%                                     |   |
| INDICATORS   | LCD  | Real Time Status, Data or Historical Events, Parameters,<br>Real Time Clock, Inverter & Alarm   |
|  | LED  | Up to date information (Status) to the User & Audible Alarm   |
| PROTECTION   | Over/Under Voltage                         | Alarm   |
|  | Output Short Circuit                       | Current Limited and cut-off, fuse and breaker   |
|  | Overload                                   | Auto-shutdown 1 min. later  |
|  | Over Temperature                           | Auto-shutdown   |
|  | Lightning / EMC Filter                     | MOV / Input & Output (FCC CLASS A)  |
|  | EMI/EMC                                    | EN50091-1, -2   |
| Galvanic Isolation   | Input & Output True Galvanic Isolation     |   |
| INTERFACE  | Contact Closure, RS-232/485                | Supports Remote Control Module, Optional SNMP card<br>(Model No. MEGATEC Net Agent II)  |
| ENVIRONMENT  | Operating Temperature                      | 0° – 40° C  |
|  | Humidity                                   | 0 - 90% Non-condensing  |
|  | Audible Noise                              | < 67 dB at 1 meter  |
| DIMENSIONS   | W x H x D (mm)                             | 2,200*1,600*800   |
|  | W x H x D (in)                             | 86.6*63.0*31.5  |
| WEIGHT   | Kilograms                                  | 2450  |
|  | Pounds                                     | 5401.3  |
| * Weights based on 220/380V IN and OUT. Weights may vary based on input/output frequency/voltage |  |   |