## 277V/480V, 3-Phase in/3-Phase out: 80KVA -160KVA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **KVA** | | **80** | **100** | **120** | **160** |
| **RECTIFIER** | | | | | |
| INPUT VOLTAGE | | 277 / 480VAC 3 Phase 4 Wire | | | |
| INPUT RANGE | | +/- 15% | | | |
| INPUT FREQUENCY | | 50 / 60 Hz +/- 7% | | | |
| INPUT POWER FACTOR | | 0.8 | | | |
| NORMAL INPUT CURRENT(A) | | 106 | 133 | 159 | 212 |
| MAXIMUM INPUT CURRENT(A) | | 133 | 166 | 199 | 265 |
| POWER WALK IN | | 0% - 100% : 20 sec | | | |
| EFFICIENCY | | 99% | | | |
| VOLTAGE REGULATION | | 1% | | | |
| CURRENT LIMIT(A) | | 159 | 199 | 239 | 319 |
| RIPPLE VOLTAGE | | 0.5% | | | |
| **BATTERY** | | | | | |
| BATTERY TYPE | | SEAL LEAD ACID / NiCd | | | |
| NO. OF CELLS | | 174 / 271 | | | |
| VOLTAGE RANGE | | 295 – 410VDC / 285-415VDC | | | |
| MAXIMUM CHARGE  CURRENT (ADC) | | 32 | 40 | 48 | 64 |
| BATTERY LOW VOLTAGE | | 320VDC / 305VDC | | | |
| BATTERY LOW STOP VOLTAGE | | 295VDC / 285VDC | | | |
| BOOST CHARGE | | 402VDC / 415VDC | | | |
| FLOAT CHARGE | | 390VDC / 410VDC | | | |
| **INVERTER** | | | | | |
| DC INPUT RANGE | | 285 – 420VDC | | | |
| WAVE FORM | | SINUSOID | | | |
| OUTPUT VOLTAGE | | 277 / 480 VAC 3 Phase 4 Wire | | | |
| OUTPUT POWER FACTOR | | 0.8 | | | |
| VOLTAGE REGULATION 100% UNBALANCE LOAD | | + / - 1 % | | | |
| FREQUENCY LOCK RANGE | | 45 – 55 Hz / 55 – 65 Hz | | | |
| OUTPUT FREQUENCY  (FREE RUNNING) | | 50 / 60 Hz + / - 0.1 Hz | | | |
| PHASE SHIFT UNDER  100% UNBALANCE LOAD | | 120 % + / - 0.5∘ | | | |
| THD (LINEAR LOAD) | | < 2 % | | | |
| OVERLOAD | <110% | CONTINUOUS | | | |
| 110 – 125% | 15 min | | | |
| 125 – 150% | 5min | | | |
| > 150% | 30 sec | | | |
| EFFICIENCY (100% LOAD) | | 94.5% | 94.5% | 95% | 95% |
| MAXIMUM OUTPUT  PEAK CURRENT(A) | | 277 | 347 | 416 | 555 |
| **STATIC SWITCH** | | | | | |
| VOLTAGE RANGE | | 222 – 332 VAC (LINE TO NEUTRAL) | | | |
| FREQUENCY RANGE | | 45 – 55 Hz / 55 – 65 Hz | | | |
| EFFICIENCY | | 99.5% | | | |
| TRANSFER TIME: | | | | | |
| - MAINS -> INVERTER | | 0.2 ms | | | |
| - INVERTER -> MAINS | | 0.2 ms | | | |
| OVERLOAD | 100% | 30 sec | | | |
| 300% | 7 sec | | | |
| ISOLATION WITH OUTPUT | | YES | | | |
| **OVERALL CHARACTERISTICS** | | | | | |
| OVERALL EFFICIENCY | | 92.5% | 92.5% | 93% | 93% |
| OPERATING ENVIRONMENT: | | | | | |
| - TEMPERATURE | | 0 - 40℃ ( 32 - 104℉ ) | | | |
| - HUMIDITY | | 0% - 90% ( NON–CONDENSING ) | | | |
| - ALTITUDE | | <1500 M ABOVE SEA LEVEL | | | |
| MAXIMUM HEAT  DISSIPATION(KW) | | 4.6 | 5.4 | 6.5 | 8.7 |
| WEIGHT(Kg) (No Battery) | | 1030 | 1350 | 1420 | 1750 |
| DIMENSION: | | | | | |
| - HEIGHT(mm) | | 1600 | | | |
| - WIDTH(mm) | | 1100 | | | |
| - DEPTH(mm) | | 800 | | | |
| - AUDIBLE NOISE | | < 65 dBA (AT 1 m) | | | |
| STANDARDS: | | | | | |
| - EN50091-1,-2 | | YES | | | |
| - FCC CLASS A | | YES | | | |
| PROTECTIONS: | | | | | |
| - SHORT CIRCUIT | | RECTIFIER, RESERVE, BYPASS NFB | | | |
| - LIGHTNING | | MOV | | | |
| - EMC FILTER | | INPUT & OUTPUT | | | |
| - GALVANIC ISOLATION | | BETWEEN INPUT & OUTPUT | | | |
| DATA DISPLAY BY LCD | | YES | | | |
| INDICATIONS & ALARMS: | | | | | |
| - LED,LCD,BUZZER | | YES | | | |
| DRY CONTACT | | YES | | | |
| BATTERY START | | YES | | | |

* All specifications mentioned above are subject to change without prior notice.