

Q-ON 3-PHASE IN / 3-PHASE OUT RUGGED UPS



FEATURES

- Online double-conversion
- DSP technology guarantees high reliability
- True galvanic isolation transformer design
- Control designed to withstand all kinds of loads
- Intelligent battery management to prolong battery lifecycle
- Independent ventilation enhance durable operation under harsh environment
- Adjustable battery numbers
- Accept dual-mains input
- Parallel operation with up to 4 units (option)
- Varieties of communication options available
- Optional 7" touch LCD
- Reverse phase frequency operation and supports non-neutral input



TECHNICAL SPECIFICATIONS

| MODEL | Q-on 10K | Q-on 15K | Q-on 20K | Q-on 30K | Q-on 40K | Q-on 60K | Q-on 80K | Q-on 100K | Q-on 120K | Q-on 160K | Q-on 200K |
|---|--|-------------------|-------------------|---|-------------------|-------------------|-------------------|--------------------|-------------------|--------------------|--------------------|
| CAPACITY | 10 KVA / 8 KW | 15 KVA / 12 KW | 20 KVA / 16 KW | 30 KVA / 24 KW | 40 KVA / 32 KW | 60 KVA / 48 KW | 80 KVA / 64 KW | 100 KVA / 80 KW | 120 KVA / 96KW | 160 KVA / 128KW | 200 KVA / 160KW |
| INPUT | | | | | | | | | | | |
| Nominal Voltage | 3 x 380VAC/400VAC (3Ph + N) | | | | | | | | | | |
| Acceptable Voltage Range | 285VAC ~ 475VAC | | | | | | | | | | |
| Frequency | 50/60 Hz ± 10 % | | | | | | | | | | |
| INVERTER | | | | | | | | | | | |
| Nominal Voltage | 3 x 380VAC/400VAC (3Ph + N) | | | | | | | | | | |
| Precision | Stationary: ±1% Transitory: ±5% (load variations 100-0-100%) | | | | | | | | | | |
| Frequency | 50/60 Hz synchronised ±1 % With mains absent ±0.1 Hz | | | | | | | | | | |
| Max. Synchronization Speed | ±1 Hz/s | | | | | | | | | | |
| Waveform | Pure Sinewave | | | | | | | | | | |
| Total Harmonic Distortion (THDv) | <2% (Linear Load) ; <5% (Non-linear Load) | | | | | | | | | | |
| Phase Displacement | 120° ±1% (balanced load) ; 120° ±2% (imbalances 50% of the load) | | | | | | | | | | |
| Dynamic Recovery Time | 3 cycles at 90 % of the static value | | | | | | | | | | |
| Admissible Overload | 110% for 10min; 150% for 60sec ; >160% for 200ms | | | | | | | | | | |
| Admissible Crest Factor | 3:1 | | | | | | | | | | |
| Admissible Power Factor | 0.6~1 (inductive or capacitive) | | | | | | | | | | |
| Imbalance Output Voltage @ 100% Unbalanced Load | <1% | | | | | | | | | | |
| Current Limit | High overload, short-circuit: RMS Voltage Limit High Crest-Factor current: Peak Voltage Limit | | | | | | | | | | |
| STATIC BYPASS | | | | | | | | | | | |
| Type | Solid state | | | | | | | | | | |
| Voltage | 3 x 380VAC/400VAC (3Ph + N) | | | | | | | | | | |
| Frequency | 50/60 Hz | | | | | | | | | | |
| Activation Criterion | Microprocessor control | | | | | | | | | | |
| Transfer Time | Zero | | | | | | | | | | |
| Admissible Overload | 150% for 1 hour; 180% for 30sec; >200% for 200ms | | | | | | | | | | |
| Transfer to Bypass | Immediate, for overloads above 160% | | | | | | | | | | |
| Retransfer | Automatic after alarm clear | | | | | | | | | | |
| MAINTENANCE BYPASS | | | | | | | | | | | |
| Type | Without interruption | | | | | | | | | | |
| Voltage | 3 x 400V (3Ph + N) | | | | | | | | | | |
| Frequency | 50/60 Hz | | | | | | | | | | |
| Overall Efficiency | Line Mode | 89% | 90% | 91% | 92% | 93% | | | | | |
| | Battery Mode | 90% | 91% | 92% | 93% | | | | | | |
| BATTERY & CHARGER | | | | | | | | | | | |
| Battery Type and Numbers | 12VDC x 32 pcs (29~32 pcs adjustable) | | | | | | | | | | |
| Nominal Battery Voltage | 384 VDC (Based on 32pcs batteries) | | | | | | | | | | |
| Charging Method | CC/CV | | | | | | | | | | |
| Precision | ±1% | | | | | | | | | | |
| Charging Current | Default 10A, *Maximum= Capacity(KW)/Battery (real-time). | | | Default 10A; Maximum 40A; 5A@ full load | | | | | | | |
| Charging Voltage | 432 VDC (Based on 32pcs batteries) | | | | | | | | | | |
| PHYSICAL | | | | | | | | | | | |
| Dimensions, D x W x H (mm) | 656 x 405 x 817 | | | 656 x 405 x 941 | 821 x 432 x 1159 | | 975 x 554 x 1286 | | 975 x 554 x 1326 | 1051 x 705 x 1646 | |
| Net Weight (Kgs) | 118 | 120 | 145 | 193 | 278 | 365 | 471 | 573 | 650 | 760 | 840 |

* The maximum current is never higher than 40A.

Product specifications are subject to change without further notice.

