

Q-on Rugged | Technical specifications

Technical table reproduced from the Powermode Q-on Rugged range page.

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%					
	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.