

TECHNICAL SPECIFICATIONS
Q-LS 60 – 160 kVA (Double Wide)



MODEL	Q-LS 60	Q-LS 80	Q-LS 100	Q-LS 120	Q-LS 160
kVA	60	80	100	120	160
kW	48	64	80	96	128
Phase	Three-phase				
RECTIFIER					
INPUT VOLTAGE (Select upon order)	Three Phase (Delta) – 208, 380, 400, 415, 440, 480, 600, 690				
INPUT RANGE	+/- 16% (Changeable on request)				
INPUT FREQUENCY	50/60- Hz (35 – 75 Hz)				
INPUT POWER FACTOR	Three-Phase – 0.8				
POWER WALK-IN	15% - 100%: 15 sec				
VOLTAGE REGULATION	1%				
RIPPLE VOLTAGE	<0.5%				
PULSES	12				
BATTERY	Q-LS 60	Q-LS 80	Q-LS 100	Q-LS 120	Q-LS 160
BATTERY COMPATIBILITY	Sealed Lead Acid				
STRING SIZE	29 pcs. (12V ea.)				
VOLTAGE RANGE	296 – 405 VDC				
MAXIMUM CHARGE CURRENT (A)	26	32	45	50	65
FLOAT VOLTAGE	390 VDC				
DC COLD START	Yes				
INVERTER	Q-LS 60	Q-LS 80	Q-LS 100	Q-LS 120	Q-LS 160
DC INPUT RANGE	285-420 VDC				
WAVE FORM	Sinusoid				
OUTPUT VOLTAGE (Select upon order – May be different from input)	Three Phase (Wye) – 208, 380, 400, 415, 440, 480, 600, 690				
VOLTAGE REGULATION AT GIVEN DC VOLTAGE	+/- 2%				
VOLTAGE REGULATION FROM FULL DC TO EMPTY DC	+/- 3%				
FREQUENCY LOCK RANGE	48.5-51.5 Hz / 58.5-61.5 Hz				
OUTPUT FREQUENCY (FREE RUNNING)	50/60Hz +/- 0.1 Hz (Selectable)				
THD (LINEAR LOAD)	< 3%				
OVERLOAD	<115%				
	116-124%				
	125-149%				
	> 150%				
STATIC SWITCH	Q-LS 60	Q-LS 80	Q-LS 100	Q-LS 120	Q-LS 160
VOLTAGE RANGE	+ 10% / - 20% of input				
FREQUENCY RANGE	50/60- Hz +/- 2.5Hz				
TRANSFER TIME:					
MAINS > INVERTER	0.04 ms				
INVERTER > MAINS	0.04 ms				
ISOLATION WITH OUTPUT	Yes				
OVERALL CHARACTERISTICS	Q-LS 60	Q-LS 80	Q-LS 100	Q-LS 120	Q-LS 160
OVERALL EFFICIENCY	92%	92.5%		93%	
OPERATING ENVIRONMENT:					
TEMPERATURE	0-40° C (32 - 104° F)				
HUMIDITY	0% - 95% (Non-Condensing)				
ALTITUDE	< 1500 M Above Sea Level				
APPROX. WEIGHT (Kg / lb) (Base before customizations)	750 / 1653	950 / 2094	1250 / 2755	1400 / 3086	1600 / 3527
DIMENSIONS:					
HEIGHT(in/cm)	67 / 170 or 79 / 200				
WIDTH(in/cm)	47 / 120				
DEPTH(in/cm)	36 / 90				
AUDIBLE NOISE (AT 1m)	<65 dBA		<67 dBA		
STANDARDS:					
EN50091-1,2	Yes				
FCC CLASS A	Yes				
UL 1778	Compliant				
CSA	Compliant				
PROTECTIONS:					

TECHNICAL SPECIFICATIONS
Q-LS 60 – 160 kVA (Double Wide)



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

* Most specifications are changeable upon request. Please speak with a sales representative.

