

Q-LSM 80-160

LARGE SCALE MARINE POWER SYSTEM

POWER CONFIDENCE

The Q-LSM™ 80-160 customizable power management system is known for its innovative Uninterrupted Power Quality™ (UPQ) technology. This technology delivers superior power conditioning and uninterrupted power for all of your critical, high-power applications.



Why the Q-LSM Series' UPQ™ Technology is superior:



Highest Quality Power – High-resolution sine wave output



Most Reliable – Highest MTBF & lowest MTTR



Customizable – Made to fit your equipment needs



Fully Integrated – Plug-and-play modular design, no assembly required



Control from Anywhere – Remote management & app notification system

When power interruptions simply cannot happen, put your confidence in the Q-LSM™ Series power systems to meet your critical, high-power needs. This innovative and customizable power system provides a pure, high-resolution sine wave output signal, so you can feel confident that your power needs will be sustained despite any power fluctuations or failures from your primary power source.

BENEFITS

- True galvanic isolation
- True multi-stage online conversion
- EMI suppression
- Higher efficiencies (operational cost savings)
- Zero in-rush current
- Lowest input distortion
- Branch circuit input protection
- Output phase imbalance protection
- Smallest footprint and cubic space
- Unique “whisper-quiet” operation
- Advanced isolation and conditioning
- Parallel redundant capabilities
- Flywheel adaptable
- Certifications (ULC, CE)

FEATURES

- Automatic battery tester, condition indicator, and boost charger
- Cold start function with special current-limiting circuitry protections
- Patented hot swappable battery modules
- International Electromagnetic Compatibility (EMC) compliant
- Multi-CPU control board design
- Plug-and-play modular design
- Self-monitoring and diagnosing tools
- Superior extreme-environment tolerant construction

CUSTOMIZATIONS

- Input and output voltages
- Frequency
- Backup time
- EPO
- Rectification (6 pulse or 12 pulse)
- Ruggedized
- Breakers
- Touch screen
- Remote monitoring
- Power connection (top fed or bottom fed)

MODEL

Three-phase, split-phase, single-phase inputs or combinations available upon request.

	Q-LSM™ 80	Q-LSM™ 100	Q-LSM™ 120	Q-LSM™ 160
kVA	80	100	120	160
kW	64	80	96	128

RECTIFIER

Input voltage	Three Phase (Delta): 208,380, 400, 415, 440, 480, 600,690 Split Phase: 120/240 Single Phase: 110, 115, 120, 138, 220, 230, 240
Input range	+/-16% (changeable upon request)
Input frequency	50/60 Hz (35-75 Hz)

BATTERY

Voltage range	296-405 VDC
DC cold start	Yes

INVERTER

DC input range	285-420 VDC
Wave form	Sinusoid
Output voltage (Select at time of order, may differ than input)	Three Phase (Wye): 208,380, 400, 415, 440, 480, 600,690 Split Phase: 120/240 Single Phase: 110, 115, 120, 138, 220, 230, 240
Voltage regulation from full DC to empty DC	+/- 3%
Output frequency (free running)	50/60 Hz +/- 0.1 Hz (selectable)
THD (linear load)	< 3%
Overload < 115% 116-124% 125-149% > 150%	Yes

OVERALL CHARACTERISTICS

Model	Q-LSM™ 80	Q-LSM™ 100	Q-LSM™ 120	Q-LSM™ 160
Overall efficiency	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)	950 kg 2094 lb	1250 kg 2755 lb	1400 kg 3086 lb	1600 kg 3527 lb
Dimensions (cm/in) WxDxH	Width: 130 cm (51.18 in) Depth: 90 cm (35.4 in) Height: 170 cm (66.9 in)			

POWER INNOVATIONS WANTS TO PUT POWER IN YOUR HANDS.

Specializing in custom, critical, rugged and renewable power applications, we deliver the highest quality uninterruptible power solutions for homes, businesses, and governments worldwide. We want to give you the tools to power your own life in any circumstance.