

# Q-LS™ 180-1.6M

LARGE SCALE POWER SYSTEM

## POWER CONFIDENCE

The Q-LS™ 180-1.6M 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-LS™ 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-LS™ 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
- 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 input or combinations available upon request.

	Q-LS™ 180	Q-LS™ 200	Q-LS™ 240	Q-LS™ 300	Q-LS™ 400	Q-LS™ 800
kVA	180	200	240	300	400	800
kW	144	160	192	240	320	640

## 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-LS™ 180	Q-LS™ 200	Q-LS™ 240	Q-LS™ 300	Q-LS™ 400	Q-LS™ 800
Overall efficiency	93%					
<b>OPERATING ENVIRONMENT</b>						
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)	2700 kg 5952 lb	2700 kg 5952 lb	2700 kg 5952 lb	3000 kg 6613 lb	3600 kg 7936 lb	7500 kg 16534 lb
Dimensions (cm/in) WxDxH	244x100x190 cm 96x40x75 in	244x100x190 cm 96x40x75 in	244x100x190 cm 96x40x75 in	244x100x190 cm 96x40x75 in	244x100x190 cm 96x40x75 in	46x100x190 cm 176x40x75 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.