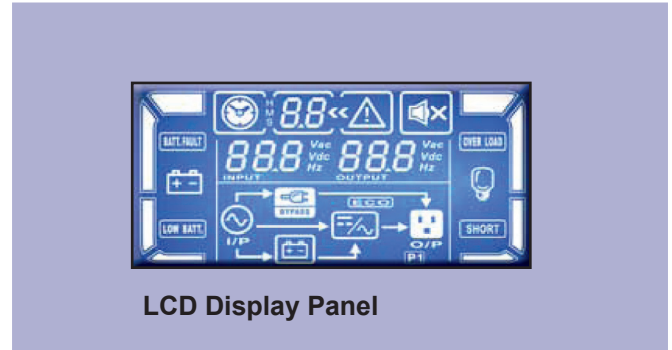


Q-ON S-series Tower



LCD Display Panel

- **True double-conversion**

A true double conversion UPS will provide clean, high level quality power to fully protect mission-critical devices such as sensitive networks, small computer centers, servers, telecom applications, as well as for industrial applications.

- **Output power factor 0.8**

Compared to the online UPSs in the current market, Q-on series provides better output power factor up to 0.8. It offers higher performance and efficiency for critical applications.

- **Wide input voltage range (110 V -300 V)**

Q-on can still provide stable power to connected devices under unstable power environments.

- **Programmable power management outlets**

With programmable power management outlets, users can easily and independently control load segments. During power failure, this feature enables users to extend battery time to mission-critical devices by shutting down the noncritical devices.

- **50/60 Hz Frequency Converter Mode**

Lock output frequency at 50Hz or 60Hz to suit power sensitive equipment.

- **ECO mode operation for energy saving**

Offers efficiency as high as 97% to cut energy usage & cost. UPS power application via static bypass, timely returning to online double conversion when the need arises.

- **Emergency Power Off (EPO) Function**

This feature can secure the personnel and equipment in case of fires or other emergencies.

- **SNMP+USB+RS-232 multiple communications**

This feature allows either USB or RS-232 communication port to work with SNMP interface simultaneously.

- **Smart battery charger design to optimize battery performance**

- Q-on 1-3K series is equipped with 2-stage charger design to guarantee battery discharge time. Besides, it will adjust charging voltage according to outside temperature. This features will extend the useful service life of batteries.

- Q-on 6K and up models are equipped with 3-stage extendable charger for optimized battery performance.
- This feature extends the useful service life of batteries and optimizes battery recharge time. Besides, the extendable charger design can be stacked in numbers for large-capacity battery charging.

- **DSP technology applied for 6K and up models**

A DSP controller provides an improved and cost-effective solution with high performance.

- **Maintenance bypass available for 6K and up models**

Internal bypass assures continuous power to critical devices during UPS maintenance.

- **Optional N+X parallel redundancy available for 6K and up models**

Q-on (6K and up models) can be used in parallel operation with up to 3 units. It increases power capacity, safety, and availability.

- **Adjustable battery numbers for 6K and up models**

Q-on (6K and up models) can still normal operate well with only 18 or 19 internal batteries.

- **Built-in isolation transformer (Option)**

With built-in isolation transformer, the UPS will offer full isolation and complete common mode noise rejection for connected precious equipment. It become an ideal power source with 100% protection against unexpected AC power problems.

- True double conversion
- Wide input voltage range (100-300 VAC)
- Input power factor correction 0.99
- Output Power Factor 0.8
- 50 Hz/60Hz frequency converter mode
- Programmable power management outlets
- Emergency power function (EPO)
- ECO mode operation for energy saving (ECO)
- Charger Capacity expansion to 8A Long-run models
- SNMP+USB+RS-232 multiple communications
- Smart battery charger design for optimized battery performance
- Selectable output voltate via LCD panel
- Optional isolation transformer offer full isolation and complete common mode noise rejection
- Option rackmount slider

MODEL		QS 1K (L)	QS 2K (L)	QS 3K (L)	QS 6K (L)	QS 10K (L)
PHASE		Single phase in/Single phase out				
CAPACITY		1000 VA/800 W	2000 VA/1600 W	3000 VA/2400 W	6000 VA/4800 W	10000 VA /8000 W
INPUT						
Voltage Range	Low Line Transfer	160 VAC± 5% or 80 VAC± 5% @ 100% load 110 VAC± 5% or 50 VAC± 5% @ 50% load			176 VAC± 3% @ 100% load 110 VAC± 3% @ 50% load	
	Low Line Comeback	175 VAC± 5% or 85 VAC± 5% @ 100% load			186 VAC± 3% @ 100% load 120 VAC± 3% @ 50% load	
	High Line Transfer	300 VAC± 5 % or 150 VAC± 5 %			300 VAC± 3%	
	High Line Comeback	290 VAC± 5 % or 145 VAC± 5 %			290 VAC± 3%	
Frequency Range		40 Hz ~ 70 Hz			46 ~ 54 Hz or 56 ~ 64 Hz	
Power Factor		≤ 0.99 @ nominal voltage (100% load)			≤ 0.99 @ 100% load	
OUTPUT						
AC Voltage Regulation (Batt. Mode)		±) 3%			± 1%	
Frequency Range (Synchronized Range)		47~53 Hz or 57~63 Hz			46 ~ 54 Hz or 56 ~ 64 Hz	
Frequency Range (Batt. Mode)		50 Hz± 0.25 Hz or 60Hz± 0.3 Hz			50 Hz± 0.1 Hz or 60 Hz± 0.1 Hz	
Current Crest Ratio		3:01			3:01	
Harmonic Distortion		≤3 % THD (Linear Load) ≤6 % THD (Non-linear Load)	≤ 4 % THD (Linear Load) ≤ 7 % THD (Non-linear Load)		≤3 % THD (Linear Load) \\ ≤ 6 % THD (Non-linear Load)	
Transfer Time	AC Mode to Batt. Mode	Zero				
	Inverter to Bypass	4 ms (Typical)			Zero	
Waveform (Batt. Mode)		Pure sine wave				
EFFICIENCY						
AC Mode		85%	88%		89%	
Battery Mode		83%			88%	
BATTERY						
Standard Model	Battery Type	12 V / 7 Ah	12 V / 7 Ah	12 V / 9 Ah	12 V / 7 Ah	12 V / 9 Ah
	Numbers	3	6	6	20	20
	Typical Recharge Time	4 hours recover to 90% capacity			7 hours recover to 90% capacity	9 hours recover to 90% capacity
	Charging Current (max.)	1.0 A			1.0 A	
	Charging Voltage	41.0 VDC± 1%	82.1 VDC±1%		273.0 VDC±1%	
Long-run Model	Battery Type	Depending on applications			Depending on applications	
	Numbers	3	6	6	18-20	
	Charging Current (max.)	8.0 A			4.0 A	
	Charging Voltage	41.0 VDC± 1%	82.1 VDC±1%		273.0 VDC±1%	
INDICATORS						
LCD Display		UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions				
ALARM						
Battery Mode		Sounding every 4 seconds				
Low Battery		Sounding every second				
Overload		Sounding twice every second				
Fault		Continuously sounding				
PHYSICAL						
Standard Model	Dimension, DxWx (mm)	397 x 145 x 220	421 x 190 x 318		592 x 250 x 576	
	Net Weight (kgs)	13	26	28	81	83
Long-run Model	Dimension, DxWx (mm)	397 x 145 x 220	421 x 190 x 318		592 x 250 x 576	
	Net Weight (kgs)	7	13	13	25	27
ENVIRONMENT						
Humidity		20-90 % RH @ 0- 40°C (non-condensing)				
Noise Level		Less than 45dB@ 1 Meter			Less than 55dB @ 1 Meter	Less than 58dB @ 1 Meter
MANAGEMENT						
Smart RS-232						
USB		Supports Windows2 2000/2003/XP/Vista/2008, Windows2 7, Linux, Unix, and MAC				
Optional SNMP		Power management from SNMP manager and web browser				

* Derate to 60% of capacity in Frequency converter mode and to 80% when the output voltage is adjusted to 208VAC

** L means long-run model