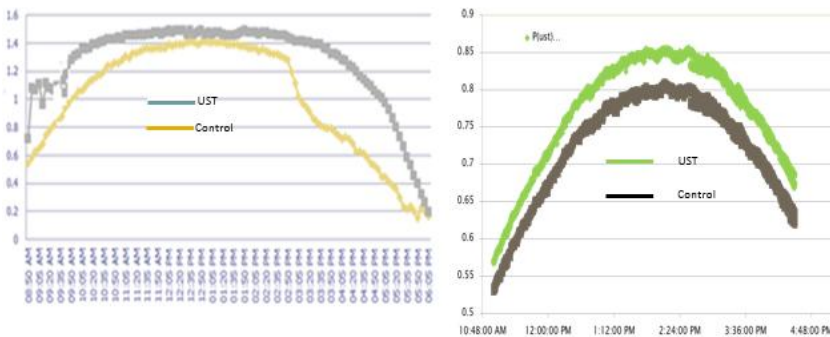


DELIVERING MORE POWER FROM A SOLAR MODULE: QB-R

Increase in Generated Daytime Power



Sunny Days: 10%-20% increase



QuantumBoost™ QB-R

QB-R: Supports up to 2510W of Modules in a string, NEMA-3R Enclosure, with transient voltage suppression

Made in the USA

Ultrasolar products are designed and manufactured with the system EPC in mind, using the highest quality components to ensure long-term field reliability. All products are assembled in our US facilities in California. We guarantee customer satisfaction.

PRODUCT FEATURES:

- UL1741 certification, IEC 62109-1
- Supports up to 2510W Module Strings
- Standard MC4 & H4 UTX compatible connectors
- Enclosure: IP33 / NEMA-3R
- Rated for 300V continuous duty
- Includes touch safe protective cover
- Wide thermal operating range:
-20° C to +50° C operation
- Configured for negative grounded arrays
- Transient Voltage Suppression
- Warranty 5 years with optional 10/15 years
- Dimensions: W12 x L8 x D3, Weight: 8lbs

PRODUCT TECHNICAL SPECIFICATIONS* Ver 1.0

Quantum Boost™ Model	QB - R
INPUT DC (to QB - R)	
Minimum String Power rated at STC** (Pmin)	800 W
Maximum String Power rated at STC** (Pmax)	2500 W
Minimum String DC Voltage (Vmp)***	175 V
Maximum String DC Voltage (Vmp)	370 V
Minimum String DC Current (Imp)***	2.0 A
Maximum String DC Current (Imp)	8.70 A
Maximum Open Circuit String Voltage (Voc)	400 V
Short Circuit String Current (Isc)	≤ 9.2 A

OUTPUT DC (from QB - R)	
Maximum String Power Increase (Pmax)	≤ 20 %
Maximum String DC Voltage Variation (Vmp)	up to +/- 5 %
Maximum String DC Current Variation at Pmax (Imp)	up to +15 %

Thermal Characteristics	
Operating Temperature Range	-20°C to +50°C

Mechanical	
Length (excluding connectors)	12 in
Width (excluding connectors)	8 in
Height (excluding connectors)	3 in
Weight	8 lbs
Connectors****	MC4 Compatible
Enclosure Rating	IP 33 / NEMA 3R

General	
Warranty Terms*****	5 years
Compliance (Performance, Safety, Fire)	UL1741; IEC62109-1; Class B
Mechanical Mounting	See Installation Procedure
Cooling	Natural Convection

* Technical specifications are subject to change without prior notice

** Standard Testing Conditions(STC): 1,000W/m² irradiance; Temp 25 °C; AM 1.5

*** Minimum current & voltage from PV string for Inverter turn-on under optimal weather conditions

**** H4UTX meets IEC50521 TUV - Class A (all Access),
UL6703 1000V Americas and JET and H4 UTX - XL for 8 AWG PV wire

***** 5 Years Standard Feature; 10 / 15 years warranty options available

Notes: Typical Operating time - 9 am through 4 pm on sunny days for optimum performance

Notes: Application notes are available and will be furnished upon written request