



381 New Road
Brandon, Vermont 05733
(802) 247-1200

7-30-2021

Solar PV Proposal for Town of Cornwall

Green Earth Energy (GEE) a division of McKernon Group located in Brandon would like to propose a solar PV system to off-set the electric consumption for the Cornwall Town Office and the Cornwall Garage. Our proposal includes a roof mounted PV system on the standing seam roof of the Town Office and a ground solar array on the town's land near Bingham Memorial Elementary School. The combined production from the two arrays would produce an estimated 30,000 kWh annually meeting the current requirements of the town's consumption.

Each solar system would have the ability to increase the number of panels in the system to meet the future increase in demand of power. The system at the Town Office could add panels on the east facing roof of Town Office Building. The ground system near the school could also add solar panels to increase production. The racking system can be expanded by adding additional posts and rails to increase the overall length for additional panels. The inverter system on both arrays will have the ability to add solar production capacity without an upgrade to the inverters proposed. We would also take the consideration of future expansion of the solar system when submitting the net-metering permit to the PUC. This would allow the systems to be expanded without amending the certificate of public good (CPG).

GEE has a long history of helping commercial and residential customers permit, design, install and maintain solar PV systems. The founder of McKernon Group (Jack McKernon) started the renewable energy division over 13 years ago. In this time GEE has built 5 - 500-watt solar systems (4 ground systems and 1 on a flat roof) along with many roof and ground systems for commercial businesses throughout Vermont. Each project gets the full dedication of our experienced crew. A few of our commercial customers includes VT Sun, Champlain Precision, Rouse Tire, Housing Trust of Rutland County, VT Army National Guard in Northfield and Sunrise Orchards. We have also installed an average of 20 residential systems annually including many installations in the Town of Cornwall throughout the years.



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Project Description:

Town Office Roof Solar Project:

- 42 – Q-Cell Q.PEAK DUO BLK ML-G9+ 380 watt panels
- SolarEdge Inverter System including a 10 kW and 5 kW inverter
- 42 - SolarEdge Optimizers (providing module level voltage shutdown and monitoring for each panel)
- IronRidge Roof rail system with non-penetrating standing seam clips
- Conduit and wire from solar panels to inverter system at ground level
- Work with GMP to design the interconnection at GMP's meter for net-metering of solar generating
- Complete Installation of Roof Solar Array and Interconnect the Inverters to GMP's meter

Ground Solar System Project:

- 20 – Longi LR4-72HBD 445 watt Bifacial panels
- SolarEdge Inverter System including a 10 kW
- 20 - SolarEdge Optimizers (providing module level voltage shutdown and monitoring for each panel)
- UNIRAC Ground Fixed Racking System with driven post
- Conduit and wire from solar array to the new GMP meter for net-metering of solar generation
- Work with GMP to design the interconnection at GMP's meter for net-metering of solar generating
- Complete Installation of Ground Solar Array, Trenching and Interconnect the Inverters to GMP's meter

Contact Information:

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jim@mckernongroup.com



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Cornwall Town Solar PV Electric System Proposal 24.86 kW DC Solar PV System

Green Earth Energy will install and commission a complete solar electric system on the standing seam roof of the Town Office and a Ground Mounted system near the Bingham Memorial School. The solar electric system will connect to the electrical grid for use as a net-metered system to offset the Town Clerk Office and Town Garage consumption.

Equipment and Production Solar on Town Clerk Office Roof:

Modules	42 - Q-Cell 380 watt modules
System Size	15.96 kW DC
Annual Solar Production	18,992 Kwh *
Saving from Annual Solar Electric Produced	\$3,114.75 **

Equipment and Production Solar for Ground System near Bingham Memorial School:

Modules	20 - Longi 445 watt Bifacial modules
System Size	8.9 kW DC
Annual Solar Production	11,036 Kwh *
Saving from Annual Solar Electric Produced	\$1,809.91**

*Estimates of solar production are based on *National Renewable Energy Laboratory PV Watts™ Calculator* for your solar installation.

**Estimates of solar generation is based on estimated production from *National Renewable Energy Laboratory PV Watts™ Calculator* and the current GMP solar rate per kWh.

Solar Investment:

System Investment:	\$66,000.00
<p><i>Green Mountain Power will apply a one-time charge to Town Office electric bill of \$110.00 for the new solar meter. There is no one-time meter charge for solar array at school.</i></p>	

Cornwall Town Solar System

62 - panels / 42 on roof & 20 on ground

24.86 kW Solar Electric Cash Flow Analysis

7/30/2021

*2% Electricity Cost Escalation every other year

** 2% O&M Escalation Rate

Year	Value per kWh of generated electricity*	Annual Power Generated with solar panel degradation	Annual value of generated electricity	O&M Cost**	Interest on investment for first 3 years @1.9% w/ loan amount on annual cash flow balance	Cash flow	Annual Saving after Interest and O&M Expense	NPV of Saving at 2% Discount Rate
0						(\$66,000.00)		\$ (66,000.00)
1	\$0.164	30,028	\$4,924.66	\$0.00	\$1,254.00	(\$62,329.34)	\$3,670.66	\$3,598.68
2	\$0.164	29,788	\$4,885.26	\$0.00	\$1,136.60	(\$58,580.68)	\$3,748.66	\$3,603.10
3	\$0.167	29,550	\$4,943.10	\$0.00	\$1,022.18	(\$54,659.76)	\$3,920.92	\$3,694.77
4	\$0.167	29,313	\$4,903.56	\$0.00		(\$49,756.20)	\$4,903.56	\$4,530.13
5	\$0.171	29,079	\$4,961.62	\$0.00		(\$44,794.59)	\$4,961.62	\$4,493.89
6	\$0.171	28,846	\$4,921.92	\$100.00		(\$39,972.67)	\$4,821.92	\$4,281.73
7	\$0.174	28,616	\$4,980.20	\$102.00		(\$35,094.47)	\$4,878.20	\$4,246.76
8	\$0.174	28,387	\$4,940.36	\$104.04		(\$30,154.11)	\$4,836.32	\$4,127.75
9	\$0.178	28,160	\$4,998.85	\$106.12		(\$25,155.26)	\$4,892.73	\$4,094.02
10	\$0.178	27,934	\$4,958.86	\$108.24		(\$20,196.40)	\$4,850.62	\$3,979.19
11	\$0.181	27,711	\$5,017.57	\$110.41		(\$15,178.83)	\$4,907.16	\$3,946.65
12	\$0.181	27,489	\$4,977.43	\$112.62		(\$10,201.40)	\$4,864.82	\$3,835.87
13	\$0.185	27,269	\$5,036.36	\$114.87		(\$5,165.03)	\$4,921.50	\$3,804.48
14	\$0.185	27,051	\$4,996.07	\$117.17		(\$168.96)	\$4,878.91	\$3,697.60
15	\$0.188	26,835	\$5,055.23	\$119.51		\$4,886.27	\$4,935.72	\$3,667.31
16	\$0.188	26,620	\$5,014.79	\$121.90		\$9,901.05	\$4,892.89	\$3,564.20
17	\$0.192	26,407	\$5,074.16	\$124.34		\$14,975.21	\$4,949.82	\$3,534.98
18	\$0.192	26,196	\$5,033.57	\$126.82		\$20,008.78	\$4,906.74	\$3,435.50
19	\$0.196	25,986	\$5,093.16	\$129.36		\$25,101.94	\$4,963.80	\$3,407.31
20	\$0.196	25,778	\$5,052.42	\$131.95		\$30,154.36	\$4,920.47	\$3,311.34
21	\$0.200	25,572	\$5,112.24	\$134.59		\$35,266.60	\$4,977.65	\$3,284.13
22	\$0.200	25,367	\$5,071.34	\$137.28		\$40,337.94	\$4,934.06	\$3,191.54
23	\$0.204	25,165	\$5,131.39	\$140.02		\$45,469.33	\$4,991.36	\$3,165.30
24	\$0.204	24,963	\$5,090.34	\$142.82		\$50,559.66	\$4,947.51	\$3,075.97
25	\$0.208	24,764	\$5,150.60	\$145.68		\$55,710.27	\$5,004.92	\$3,050.66
26	\$0.208	24,565	\$5,109.40	\$148.59		\$60,819.67	\$4,960.81	\$2,964.47
27	\$0.212	24,369	\$5,169.90	\$151.57		\$65,989.56	\$5,018.33	\$2,940.05
28	\$0.212	24,174	\$5,128.54	\$154.60		\$71,118.10	\$4,973.94	\$2,856.90
29	\$0.216	23,981	\$5,189.26	\$157.69		\$76,307.36	\$5,031.57	\$2,833.34
30	\$0.216	23,789	\$5,147.74	\$160.84		\$81,455.10	\$4,986.90	\$2,753.12

Complete System Investment

\$66,000.00

Internal Rate of
Return for the
Solar Project

3.7%

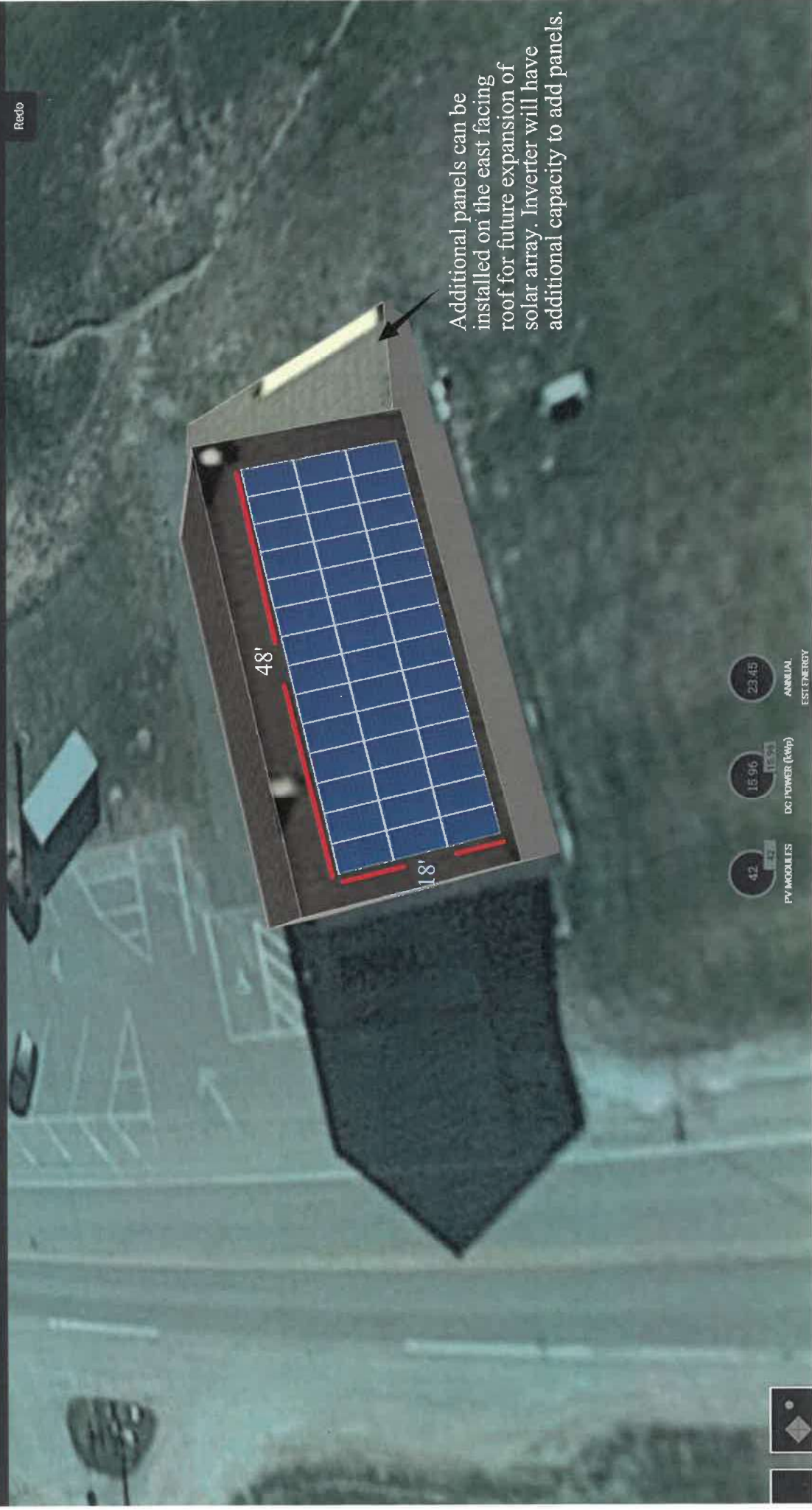
There is no expense allocated to O&M in the first 5 years. Any maintenance or repairs required during this time will be covered under the 60 month workmanship warranty. O&M for the system after year 5 will be based on time and materials. Solar panels, optimizers and inverter equipment are covered by a 25-year manufacturer's warranty. The estimated O&M cost is for labor to replace equipment if needed. Inverter system has remote monitoring capability, that will require WiFi interconnection. This will allow system's performance to be monitored and any issues to be detected remotely. The WiFi service is not included in the O&M.

Click a roof section to place PV modules on it or to edit modules' properties.

ENTIRE



Redo



Additional panels can be installed on the east facing roof for future expansion of solar array. Inverter will have additional capacity to add panels.

42 PV MODULES

15.96 DC POWER (kWp)

23.45 ANNUAL EST ENERGY



n to place PV modules on it or to edit modules'



School Entrance

Windmill pedestal with meter.
Solar meter can be located on same pedestal or on a new pedestal can be installed

Trench from array to pedestal

Windmill

Proposed trench for conduit and wire from utility pole to windmill pedestal

Inverter will mount to array

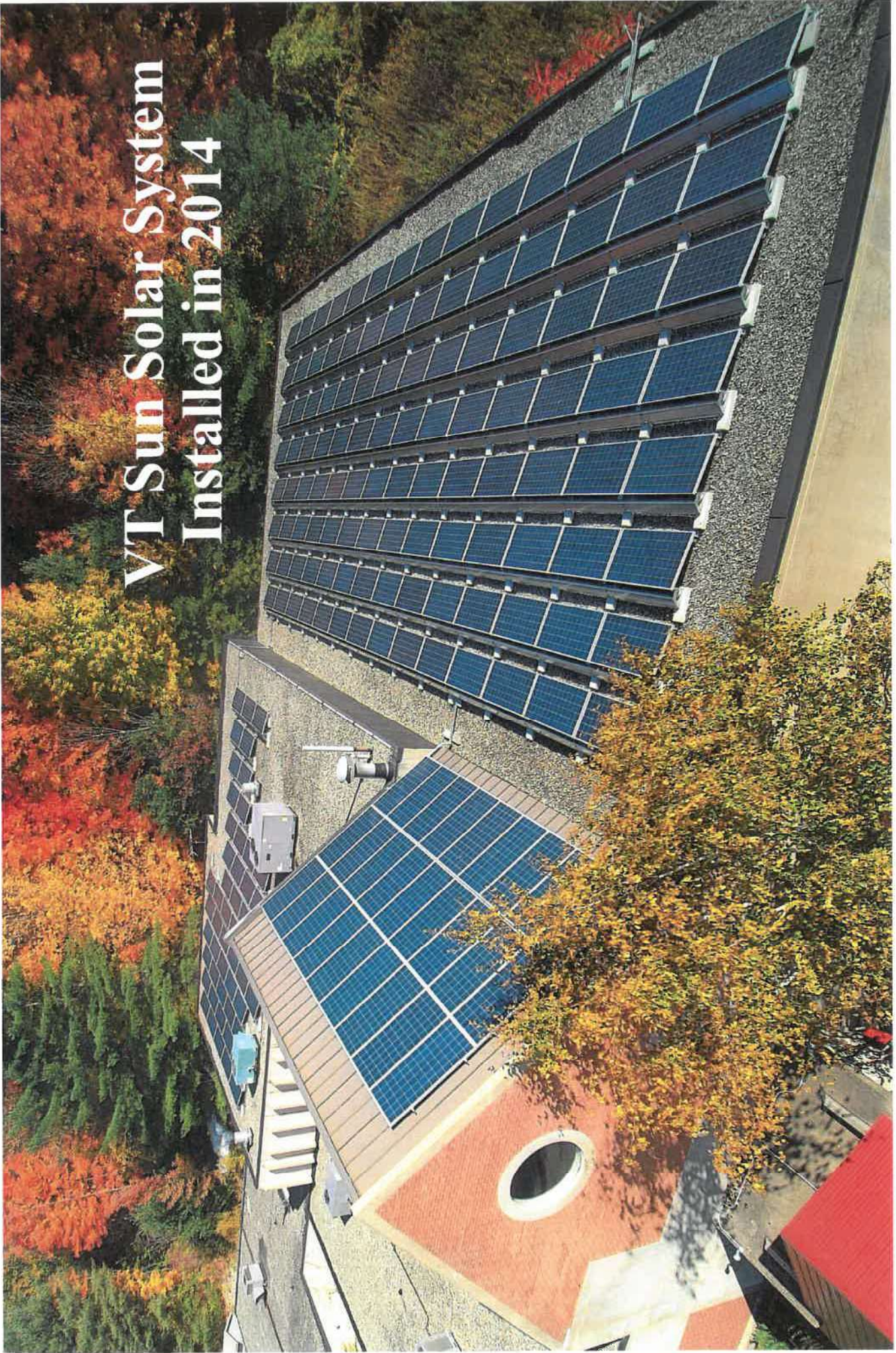
Utility pole

Dimensions of a 20 panel solar array is 35' wide x 13' deep x 11' high

Location of the array to be determined by Select Board



VT Sun Solar System Installed in 2014





Single Phase Inverter with HD-Wave Technology for North America

SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US /
SE7600H-US / SE10000H-US / SE11400H-US



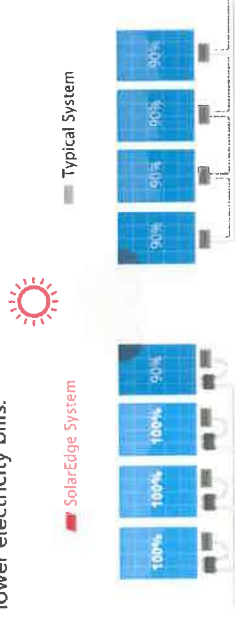
Optimized installation with HD-Wave technology

- / Specifically designed to work with power optimizers
- / Record-breaking 99% weighted efficiency
- / Quick and easy inverter commissioning directly from a smartphone using the SolarEdge SetApp
- / Fixed voltage inverter for longer strings
- / Integrated arc fault protection and rapid shutdown for NEC 2014, NEC 2017 and NEC 2020 per article 690.11 and 690.12
- / UL1741 SA certified, for CPUC Rule 21 grid compliance
- / Small, lightweight, and easy to install both outdoors or indoors
- / Built-in module-level monitoring
- / Optional: Faster installations with built-in consumption metering (1% accuracy) and production revenue grade metering (0.5% accuracy, ANSI C12.20)

Power Your Home with SolarEdge

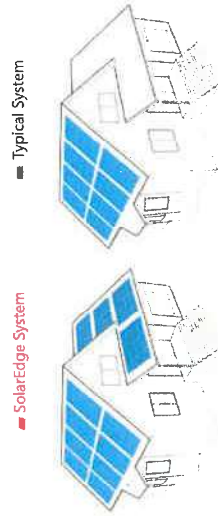
More Energy

Install SolarEdge to maximize production from each solar module by eliminating power losses that can be caused by soiling, shading, or snow. More power = more revenue for faster system payback and lower electricity bills.



More Aesthetic Rooftops

SolarEdge enables optimal rooftop utilization, resulting in more modules on the roof for more energy, more savings, and more aesthetic rooftops.



Full System Monitoring

Monitor your real-time system performance from the palm of your hand. Accessible for free, anytime, anywhere, from your computer or mobile device.



Advanced Safety

SolarEdge provides peace of mind with built-in safety features compliant with the most advanced safety standards, for maximum protection of people and property.

Making Solar Systems Smarter

Long-Term Warranties

SolarEdge products are built for lasting performance. Protect your investment with warranties amongst the longest in the industry: 25 years for power optimizers, 12 years for inverters (extendable to 20 or 25 years for an additional cost).



Future-Proofed Solutions

Put a down payment on your future with SolarEdge. Enjoy easy upgrades to battery storage, EV charging, and other cutting-edge smart energy capabilities.

About SolarEdge

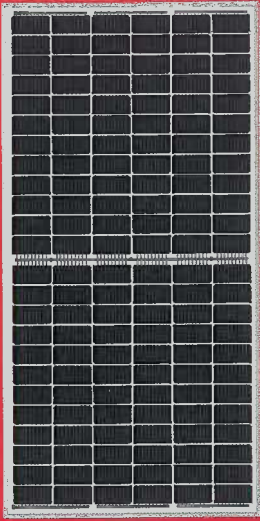
SolarEdge is a global leader in smart energy technology. By deploying world-class engineering capabilities and a relentless focus on innovation, we create smart energy products and solutions that power our lives and drive future progress.

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solaredge.com



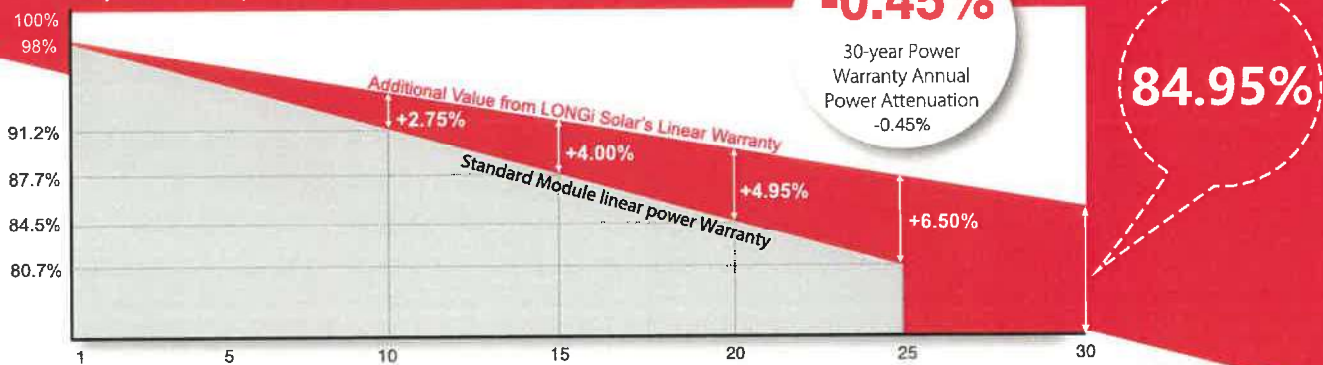
LR4-72HBD 425~455M



*Both 6BB & 9BB are available

**High Efficiency
Low LID Bifacial PERC with
Half-cut Technology**

12-year Warranty for Materials and Processing;
30-year Warranty for Extra Linear Power Output



Complete System and Product Certifications

IEC 61215, IEC 61730, UL 61730
ISO 9001:2008: ISO Quality Management System
ISO 14001: 2004: ISO Environment Management System
TS62941: Guideline for module design qualification and type approval
OHSAS 18001: 2007 Occupational Health and Safety



* Specifications subject to technical changes and tests. LONGi Solar reserves the right of interpretation.

Front side performance equivalent to conventional low LID mono PERC:

- High module conversion efficiency (up to 20.9%)
- Better energy yield with excellent low irradiance performance and temperature coefficient
- First year power degradation <2%

Bifacial technology enables additional energy harvesting from rear side (up to 25%)

Glass/glass lamination ensures 30 year product lifetime, with annual power degradation < 0.45%, 1500V compatible to reduce BOS cost

Solid PID resistance ensured by solar cell process optimization and careful module BOM selection

Reduced resistive loss with lower operating current

Higher energy yield with lower operating temperature

Reduced hot spot risk with optimized electrical design and lower operating current

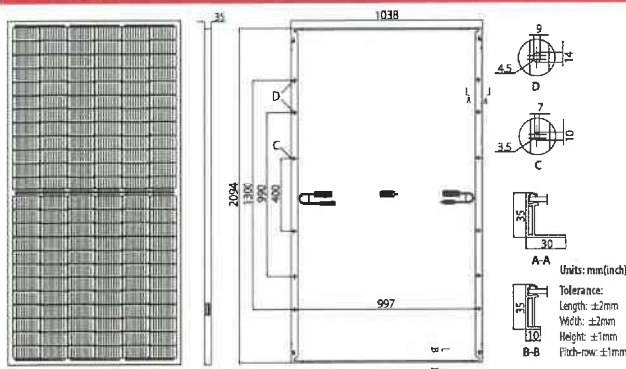
LONGi

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Note: Due to continuous technical innovation, R&D and improvement, technical data above mentioned may be of modification accordingly. LONGi have the sole right to make such modification at anytime without further notice; Demanding party shall request for the latest datasheet for such as contract need, and make it a consisting and binding part of lawful documentation duly signed by both parties.

LR4-72HBD 425~455M

Design (mm)



Mechanical Parameters

Cell Orientation: 144 (6x24)
 Junction Box: IP68, three diodes
 Output Cable: 4mm², 300mm in length,
 length can be customized
 Glass: Dual glass
 2.0mm coated tempered glass
 Frame: Anodized aluminum alloy frame
 Weight: 27.5kg
 Dimension: 2094x1038x35mm
 Packaging: 30pcs per pallet
 150pcs per 20'GP
 660pcs per 40'HC

Operating Parameters

Operational Temperature: -40°C ~ +85°C
 Power Output Tolerance: 0 ~ +5 W
 Voc and Isc Tolerance: ±3%
 Maximum System Voltage: DC1500V (IEC/UL)
 Maximum Series Fuse Rating: 25A
 Nominal Operating Cell Temperature: 45±2°C
 Safety Class: Class II
 Fire Rating: UL type 3
 Bifaciality: Glazing 70±5%

Electrical Characteristics

Test uncertainty for Pmax: ±3%

Model Number	LR4-72HBD-425M		LR4-72HBD-430M		LR4-72HBD-435M		LR4-72HBD-440M		LR4-72HBD-445M		LR4-72HBD-450M		LR4-72HBD-455M	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	425	317.4	430	321.1	435	324.9	440	328.6	445	332.3	450	336.1	455	339.8
Open Circuit Voltage (Voc/V)	48.7	45.6	48.9	45.8	49.1	45.9	49.2	46.0	49.4	46.2	49.6	46.4	49.8	46.6
Short Circuit Current (Isc/A)	11.22	9.06	11.30	9.13	11.36	9.18	11.45	9.25	11.52	9.30	11.58	9.36	11.65	9.41
Voltage at Maximum Power (Vmp/V)	40.4	37.7	40.6	37.9	40.8	38.0	41.0	38.2	41.2	38.4	41.4	38.6	41.6	38.8
Current at Maximum Power (Imp/A)	10.52	8.42	10.60	8.49	10.66	8.54	10.73	8.60	10.80	8.65	10.87	8.70	10.93	8.76
Module Efficiency(%)	19.6		19.8		20.0		20.2		20.5		20.7		20.9	

STC (Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25°C, Spectra at AM1.5

NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m², Ambient Temperature 20°C, Spectra at AM1.5, Wind at 1m/s

Electrical characteristics with different rear side power gain (reference to 445W front)

Pmax /W	Voc/V	Isc /A	Vmp/V	Imp /A	Pmax gain
467	49.4	12.09	41.2	11.34	5%
490	49.4	12.67	41.2	11.88	10%
512	49.5	13.24	41.3	12.42	15%
534	49.5	13.82	41.3	12.96	20%
556	49.5	14.40	41.3	13.50	25%

Temperature Ratings (STC)

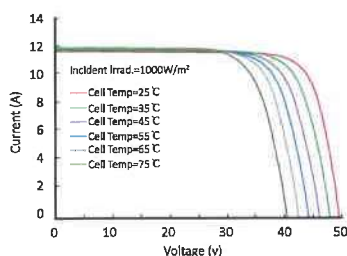
Temperature Coefficient of Isc	+0.050%/°C
Temperature Coefficient of Voc	-0.284%/°C
Temperature Coefficient of Pmax	-0.350%/°C

Mechanical Loading

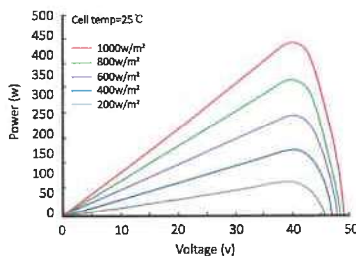
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

I-V Curve

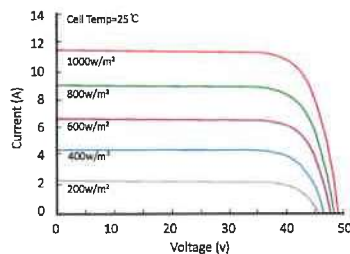
Current-Voltage Curve (LR4-72HBD-440M)



Power-Voltage Curve (LR4-72HBD-440M)



Current-Voltage Curve (LR4-72HBD-440M)



LONGI

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powered by

Q.ANTUM DUO Z

Q.PEAK DUO BLK ML-G9+

365-385

ENDURING HIGH
PERFORMANCE



BREAKING THE 20% EFFICIENCY BARRIER

Q.ANTUM DUO Z Technology with zero gap cell layout boosts module efficiency up to 20.6%.



INNOVATIVE ALL-WEATHER TECHNOLOGY

Optimal yields, whatever the weather with excellent low-light and temperature behavior.



ENDURING HIGH PERFORMANCE

Long-term yield security with Anti LID Technology, Anti PID Technology¹, Hot-Spot Protect and Traceable Quality Tra.Q™.



EXTREME WEATHER RATING

High-tech aluminum alloy frame, certified for high snow (6000 Pa) and wind loads (4000 Pa).



A RELIABLE INVESTMENT

Inclusive 25-year product warranty and 25-year linear performance warranty².



STATE OF THE ART MODULE TECHNOLOGY

Q.ANTUM DUO combines cutting edge cell separation and innovative 12-busbar design with Q.ANTUM Technology.

¹ APT test conditions according to IEC/TS 62804-1:2015, method B (-1500 V, 168h)

² See data sheet on rear for further information.



THE IDEAL SOLUTION FOR:



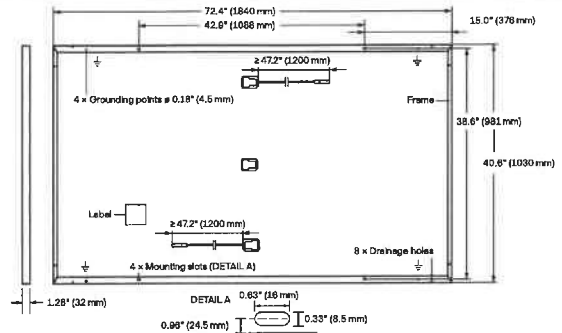
Rooftop arrays on
residential buildings

Engineered in Germany

Q CELLS

MECHANICAL SPECIFICATION

Format	72.4 in × 40.6 in × 1.26 in (including frame) (1840 mm × 1030 mm × 32 mm)
Weight	43.0 lbs (19.5 kg)
Front Cover	0.11 in (2.8 mm) thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Black anodized aluminum
Cell	6 × 22 monocrystalline Q.ANTUM solar half cells
Junction Box	2.09-3.98 in × 1.26-2.36 in × 0.59-0.71 in (53-101 mm × 32-60 mm × 15-18 mm), IP67, with bypass diodes
Cable	4 mm ² Solar cable; (+) ≥47.2 in (1200 mm), (-) ≥47.2 in (1200 mm)
Connector	Stäubli MC4, IP68

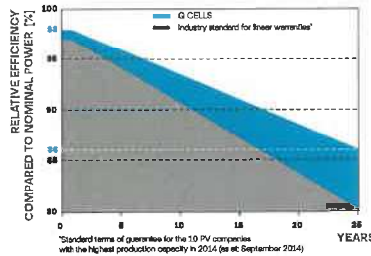


ELECTRICAL CHARACTERISTICS

POWER CLASS		365	370	375	380	385	
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC ¹ (POWER TOLERANCE +5 W / -0 W)							
Minimum	Power at MPP ¹	P _{MPP} [W]	365	370	375	380	385
	Short Circuit Current ¹	I _{SC} [A]	10.40	10.44	10.47	10.50	10.53
	Open Circuit Voltage ¹	V _{OC} [V]	44.93	44.97	45.01	45.04	45.08
	Current at MPP	I _{MPP} [A]	9.87	9.92	9.98	10.04	10.10
	Voltage at MPP	V _{MPP} [V]	36.99	37.28	37.57	37.85	38.13
	Efficiency ¹	η [%]	≥19.3	≥19.5	≥19.8	≥20.1	≥20.3
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT ²							
Minimum	Power at MPP	P _{MPP} [W]	273.3	277.1	280.8	284.6	288.3
	Short Circuit Current	I _{SC} [A]	8.38	8.41	8.43	8.46	8.48
	Open Circuit Voltage	V _{OC} [V]	42.37	42.41	42.44	42.48	42.51
	Current at MPP	I _{MPP} [A]	7.76	7.81	7.86	7.91	7.96
	Voltage at MPP	V _{MPP} [V]	35.23	35.48	35.72	35.96	36.20

¹Measurement tolerances P_{MPP} ±3%; I_{SC}; V_{OC} ±5% at STC: 1000 W/m², 25 ± 2 °C, AM 1.5 according to IEC 60904-3 • 800 W/m², NMOT, spectrum AM 1.5

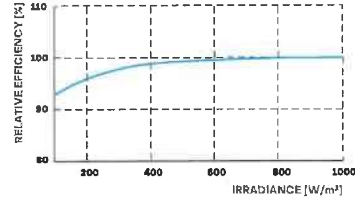
Q CELLS PERFORMANCE WARRANTY



At least 98% of nominal power during first year. Thereafter max. 0.5% degradation per year. At least 93.5% of nominal power up to 10 years. At least 86% of nominal power up to 25 years.

All data within measurement tolerances. Full warranties in accordance with the warranty terms of the Q CELLS sales organisation of your respective country.

PERFORMANCE AT LOW IRRADIANCE



Typical module performance under low irradiance conditions in comparison to STC conditions (25 °C, 1000 W/m²)

TEMPERATURE COEFFICIENTS

Temperature Coefficient of I _{SC}	α	[%/K]	+0.04	Temperature Coefficient of V _{OC}	β	[%/K]	-0.27
Temperature Coefficient of P _{MPP}	γ	[%/K]	-0.35	Nominal Module Operating Temperature	NMOT	[°F]	109 ± 5.4 (43 ± 3 °C)

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage V _{sys}	[V]	1000 (IEC)/1000 (UL)	PV module classification	Class II
Maximum Series Fuse Rating	[A DC]	20	Fire Rating based on ANSI/UL 61730	TYPE 2
Max. Design Load, Push/Pull ³	[lbs/ft ²]	84 (4000 Pa)/55 (2660 Pa)	Permitted Module Temperature on Continuous Duty	-40 °F up to +185 °F (-40 °C up to +85 °C)
Max. Test Load, Push/Pull ³	[lbs/ft ²]	125 (6000 Pa)/84 (4000 Pa)		

³ See Installation Manual

QUALIFICATIONS AND CERTIFICATES

UL 61730, CE-compliant,
IEC 61215:2016,
IEC 61730:2016,
U.S. Patent No. 9,893,215
(solar cells)



PACKAGING AND TRANSPORT INFORMATION

Horizontal packaging	74.4 in 1890 mm	42.5 in 1080 mm	47.6 in 1208 mm	1458 lbs 661 kg	28 pallets	24 pallets	32 modules

Note: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product.

Hanwha Q CELLS America Inc.

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GROUND FIXED TILT



GROUND FIXED TILT (GFT) is an engineered system of standard, lightweight ground mount components that are in stock and ready to ship from North America's largest ground mount distribution network. UNIRAC's unmatched commercial project support makes construction easy, from permitting through installation, including region-specific engineering. GFT's refined solution, including a new shared rail design, delivers enhanced system and labor optimization. Plus, enjoy peace of mind with **SOLARMOUNT** Mounting Technology and UNIRAC's industry-leading 25-year warranty.



IN STOCK & READY TO SHIP
THE BEST SOLUTION IS AVAILABLE



COMMERCIAL PARTNERSHIP
EXPERIENCE THAT MAKES A DIFFERENCE



INSTALLATION EXPERIENCE
REFINED WITH YOU IN MIND

MAKE GROUND MOUNT SIMPLE

FOR QUESTIONS OR CUSTOMER SERVICE VISIT UNIRAC.COM OR CALL (505) 248-2702

GROUND FIXED TILT



IN STOCK AND READY TO SHIP

THE BEST SOLUTION IS AVAILABLE

Single post configurations with 20° and 30° tilt options. Standardized components and kitted hardware bring ease of stockability and repeatability, from 2KW to multi-MW. North America's largest Ground Mount Distributor network ensures the fastest lead times and empowers you to finish your projects on schedule.

COMMERCIAL PARTNERSHIP

EXPERIENCE THAT MAKES A DIFFERENCE

Permit ready, pre-engineered regional designs save you valuable time. Standard construction drawings with general structural notes, table and component cross sections, foundation options and structural details speed permit submittal and construction. Industry leading commercial customer service supports you across your project, from design and logistics thru installation.

INSTALLATION EXPERIENCE

REFINED WITH YOU IN MIND

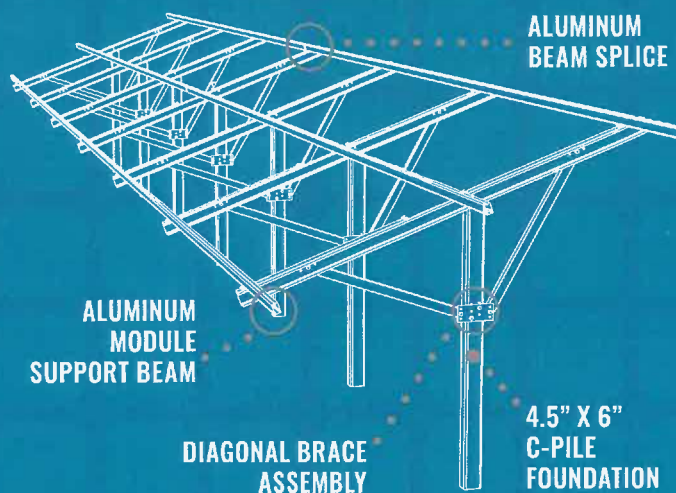
Kitted hardware, integrated bonding, and pre-assembled parts streamline construction, from pre-mobilization to installation. Straightforward connections ensure maximum strength and require no specialized labor or training. Lightweight components allow for one or two-person assembly. System flexibility enables you to mount 60 & 72 cell modules and choose from multiple foundation and rail options to optimize your projects.



TOP MOUNTING
MODULE CLAMPS
W/ INTEGRATED BONDING



SNAP-ON
WIRE MANAGEMENT



UL2703

ELECTRICAL
BONDING &
GROUNDING



UNMATCHED



CERTIFIED



ENGINEERING



BANKABLE



DESIGN



PERMIT

ON-TIME DELIVERY

No waiting. Our goal is simple: Consistently deliver solutions and services correctly, efficiently and dependably to exceed your expectations. Our world-class operations provide a 99% on-time delivery to help you meet your commitment dates.

CERTIFIED QUALITY PROVIDER

UNIRAC is the only PV mounting vendor with ISO certifications for 9001:2008, 14001:2004 and OHSAS 18001:2007, which means we deliver the highest standards for fit, form, and function. These certifications demonstrate our excellence and our commitment to first class business

BANKABLE WARRANTY

UNIRAC has the financial strength to back our products and reduce your risk. Have peace of mind knowing you are receiving products of exceptional quality. GFT is covered by a 25-year manufacturing warranty on all parts.