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Daniel G

ELECTRICAL

URE
United Renewable Energy Co., Ltd.

EN

PEACH

D7M_H8A / 144 cells (IEC 1000 V)
D7K_H8A / 144 cells (UL 1500V)
365W - 390 W
Mono-Crystalline PV Module

URE Peach module uses URE state-of-the-art cell cutting technology, and advanced module manufacturing experiences.

Key Features

- Positive power tolerance
  +0 ~ +4.99 watt
- 100% EL inline inspection
  Better module reliability
- Withstand heavy loading
  front load 5400 Pa & rear load 2400 Pa
- Design for 1500 VDC
  Reduce the system BOS effectively
- Excellent low light performance
  3.5% relative eff. Reduction at low-irradiance (200W/m²)

For more information, please visit us at ***www.urecorp.com***

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Electrical Data

Model - STC		D7M365H8A D7K365H8A	D7M370H8A D7K370H8A	D7M375H8A D7K375H8A	D7M380H8A D7K380H8A	D7M385H8A D7K385H8A	D7M390H8A D7K390H8A
Maximum Rating Power (Pmax)	[W]	365	370	375	380	385	390
Module Efficiency	[%]	18.4	18.7	19.0	19.3	19.6	19.9
Open Circuit Voltage (Voc)	[V]	47.59	47.77	47.96	48.15	48.34	48.53
Maximum Power Voltage	[V]	38.58	39.02	39.37	39.71	40.05	40.39
Short Circuit Current (Isc)	[A]	10.02	10.05	10.08	10.10	10.13	10.16
Maximum Power Current	[A]	9.44	9.48	9.53	9.57	9.61	9.66

*Standard Test Condition (STC): Cell Temperature 25 °C, Irradiance 1000 W/m², AM 1.5
*Values without tolerance are typical numbers.

Mechanical Data

Item	Specification
Dimensions	2000 mm (L)[1] x 992 mm (W)[1] x 35 mm (D)[2] / 78.74" (L)[1] x 39.1" (W)[1] x 1.38" (D)[2]
Weight	23 kg / 50.7 lbs
Solar Cell	144 half-cut monocrystalline 6" silicon cells
Front Glass	Anti-reflective tempered solar glass, 3.2mm thickness
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate)
Back Cover	Composite film, white
Junction Box	IP 68 rated
Frame	Anodized aluminum frame, original or black
Packaging Configuration	30 pcs Per Pallet, 704 pcs per 40' HQ container

[1] : With assembly tolerance of ± 2 mm [± 0.08"]
[2] : With assembly tolerance of ± 0.8 mm [± 0.03"]

Operating Conditions

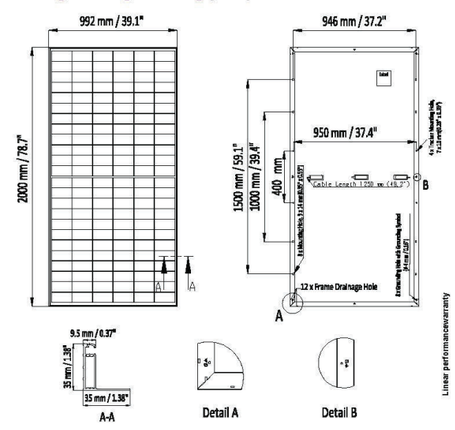
Item	Specification
Mechanical Load (Test Load)	5400 Pa acc. to IEC 61215
Maximum System Voltage	IEC 1000 VDC / UL 1500 VDC
Series Fuse Rating	18 A
Operating Temperature	-40 to 85 °C

Temperature Characteristics

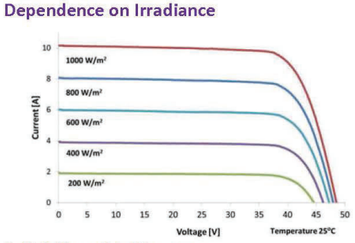
Item	Specification
Nominal Module Operating Temperature	42°C ± 2°C
Temperature Coefficient of Isc	0.107 % / °C
Temperature Coefficient of Voc	-0.320 % / °C
Temperature Coefficient of Pmax	-0.367 % / °C

*Nominal module operating temperature (NMOT): Air mass AM 1.5, irradiance 800W/m², temperature 20°C, windspeed 1 m/s.
*Reduction in efficiency from 1000W/m² to 200W/m² at 25°C: 3 ± 2%.

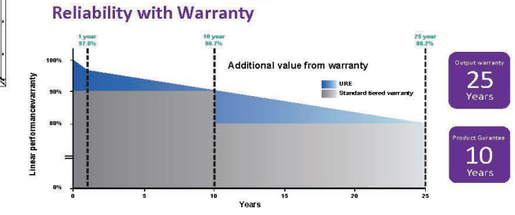
Engineering Drawing (mm)



Dependence on Irradiance



Reliability with Warranty



For more information, please visit us at ***www.urecorp.com***

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M4 INDUSTRIES LLC
938 TAIL WATER DRIVE
WINDSOR, CO 80550
970.685.1136

STEWART PV SYSTEM
20835 CAMINO REPOSADO POINT
FOUNTAIN, CO 80817

REVISIONS

REV. NO.	DESCRIPTION	DATE

DRAWING NAME
DATASHEET

SCALE	1/8" = 1'-0"
PAPER SIZE	11" X 17"
REVISION	001
DRAWN BY	JMM

SHEET NO.
D107

PROJECT NO. STEWART
DATE 11.11.2020

Data Sheet
Enphase Microinverters
Region: AMERICAS

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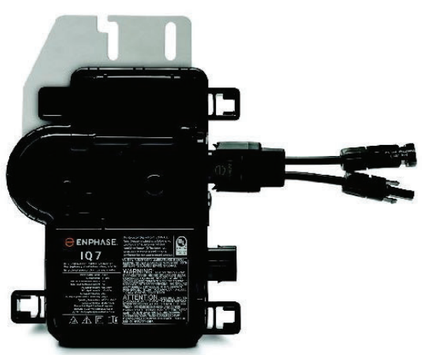
Enphase IQ 7 and IQ 7+ Microinverters

The high-powered smart grid-ready **Enphase IQ 7 Micro™** and **Enphase IQ 7+ Micro™** dramatically simplify the installation process while achieving the highest system efficiency.

Part of the Enphase IQ System, the IQ 7 and IQ 7+ Microinverters integrate with the Enphase IQ Envoy™, Enphase IQ Battery™, and the Enphase Enlighten™ monitoring and analysis software.

IQ Series Microinverters extend the reliability standards set forth by previous generations and undergo over a million hours of power-on testing, enabling Enphase to provide an industry-leading warranty of up to 25 years.



Easy to Install

- Lightweight and simple
- Faster installation with improved, lighter two-wire cabling
- Built-in rapid shutdown compliant (NEC 2014 & 2017)

Productive and Reliable

- Optimized for high powered 60-cell and 72-cell* modules
- More than a million hours of testing
- Class II double-insulated enclosure
- UL listed

Smart Grid Ready

- Complies with advanced grid support, voltage and frequency ride-through requirements
- Remotely updates to respond to changing grid requirements
- Configurable for varying grid profiles
- Meets CA Rule 21 (UL 1741-SA)

* The IQ 7+ Micro is required to support 72-cell modules.

UL CERTIFIED SAFETY US-CA E341165

To learn more about Enphase offerings, visit **enphase.com**

ENPHASE.

Enphase IQ 7 and IQ 7+ Microinverters

INPUT DATA (DC)	IQ7-60-2-US		IQ7PLUS-72-2-US	
Commonly used module pairings[1]	235 W - 350 W +		235 W - 440 W +	
Module compatibility	60-cell PV modules only		60-cell and 72-cell PV modules	
Maximum input DC voltage	48 V		60 V	
Peak power tracking voltage	27 V - 37 V		27 V - 45 V	
Operating range	16 V - 48 V		16 V - 60 V	
Min/Max start voltage	22 V / 48 V		22 V / 60 V	
Max DC short circuit current (module Isc)	15 A		15 A	
Overvoltage class DC port	II		II	
DC port backfeed current	0 A		0 A	
PV array configuration	1 x 1 ungrounded array; No additional DC side protection required; AC side protection requires max 20A per branch circuit			
OUTPUT DATA (AC)	**IQ 7 Microinverter**		**IQ 7+ Microinverter**	
Peak output power	250 VA		295 VA	
Maximum continuous output power	240 VA		290 VA	
Nominal (L-L) voltage/range[2]	240 V / 211-264 V	208 V / 183-229 V	240 V / 211-264 V	208 V / 183-229 V
Maximum continuous output current	1.0 A (240 V)	1.15 A (208 V)	1.21 A (240 V)	1.39 A (208 V)
Nominal frequency	60 Hz		60 Hz	
Extended frequency range	47 - 68 Hz		47 - 68 Hz	
AC short circuit fault current over 3 cycles	5.8 Arms		5.8 Arms	
Maximum units per 20 A (L-L) branch circuit[3]	16 (240 VAC)	13 (208 VAC)	13 (240 VAC)	11 (208 VAC)
Overvoltage class AC port	III		III	
AC port backfeed current	0 A		0 A	
Power factor setting	1.0		1.0	
Power factor (adjustable)	0.85 leading ... 0.85 lagging		0.85 leading ... 0.85 lagging	
EFFICIENCY	**@240 V**	**@208 V**	**@240 V**	**@208 V**
Peak efficiency	97.6 %	97.6 %	97.5 %	97.3 %
CEC weighted efficiency	97.0 %	97.0 %	97.0 %	97.0 %
MECHANICAL DATA				
Ambient temperature range	-40°C to +65°C			
Relative humidity range	4% to 100% (condensing)			
Connector type (IQ7-60-2-US & IQ7PLUS-72-2-US)	MC4 (or Amphenol H4 UTX with additional Q-DCC-5 adapter)			
Dimensions (WxHxD)	212 mm x 175 mm x 30.2 mm (without bracket)			
Weight	1.08 kg (2.38 lbs)			
Cooling	Natural convection - No fans			
Approved for wet locations	Yes			
Pollution degree	PD3			
Enclosure	Class II double-insulated, corrosion resistant polymeric enclosure			
Environmental category / UV exposure rating	NEMA Type 6 / outdoor			
FEATURES				
Communication	Power Line Communication (PLC)			
Monitoring	Enlighten Manager and MyEnlighten monitoring options. Both options require installation of an Enphase IQ Envoy.			
Disconnecting means	The AC and DC connectors have been evaluated and approved by UL for use as the load-break disconnect required by NEC 690.			
Compliance	CA Rule 21 (UL 1741-SA) UL 62109-1, UL1741/IEEE1547, FCC Part 15 Class B, ICES-0003 Class B, CAN/CSA-C22.2 NO. 107.1-01 This product is UL Listed as PV Rapid Shut Down Equipment and conforms with NEC-2014 and NEC-2017 section 690.12 and C22.1-2015 Rule 64-218 Rapid Shutdown of PV Systems, for AC and DC conductors, when installed according manufacturer's instructions.			

1. No enforced DC/AC ratio. See the compatibility calculator at https://enphase.com/en-us/support/module-compatibility.
2. Nominal voltage range can be extended beyond nominal if required by the utility.
3. Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

To learn more about Enphase offerings, visit **enphase.com**

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2019-3-26

M4 INDUSTRIES LLC
938 TAIL WATER DRIVE
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STEWART PV SYSTEM
20835 CAMINO REPOSADO POINT
FOUNTAIN, CO 80817

REVISIONS

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SCALE	1/8" = 1'-0"
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DRAWN BY	JMM

SHEET NO.
D208

PROJECT NO.	STEWART
DATE	11.11.2020

SUNMODO®

SunTurf
Ground Mount System

SunModo PV Rack Mounting System

UL2703 Compliant

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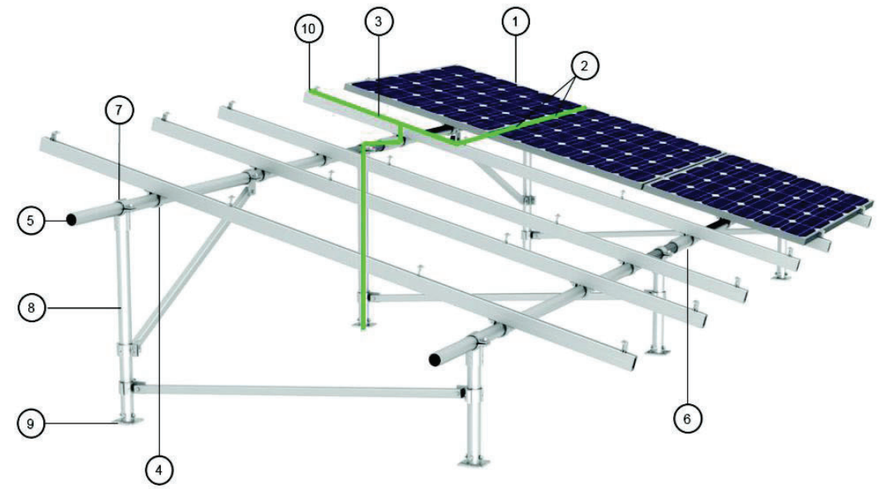
SUNMODO®

SunTurf
Ground Mount System

Fault Current Path Diagram



Items are listed in the fault current path in order from the PV Panel to the Post Base:

1. PV Panel
2. Grounding Mid Clamp Kit
3. Helio Rail
4. 2" Aluminum Pipe Clamp Kit with PVC Insulator
5. Horizontal Steel Post
6. 2" Pipe Splice Kit (configuration dependent)
7. 2" T Pipe Cap Kit
8. Vertical Post
9. 2" Post Base Kit
10. Grounding Lug

Fault Current Path

M4 INDUSTRIES LLC
938 TAIL WATER DRIVE
WINDSOR, CO 80550

970.685.1136

STEWART PV SYSTEM
2083 5 CAMINO REPOSADO POINT
FOUNTAIN, CO 80817

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SCALE	1/8" = 1'-0"
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