

PV SYSTEM DETAILS

ARRAY TYPE:	GROUND MOUNT FIXED TILT AND TRACKER
DC SYSTEM SIZE:	2.852 MW DC
DC SYSTEM VOLTAGE:	1500 V
AC SYSTEM SIZE:	2.250 MW AC
MODULES:	(5382) HELIENE 144HC M10 530W
INVERTERS:	(18) SUNNY HIGHPOWER PEAK3 125-US
OPTIMIZERS:	N/A
RACKING:	RBI AND ATI
CLAMPS:	N/A
AZIMUTH:	180°
ARRAY PITCH:	32'-3"
ARRAY TILT:	25°

ALLIANT UW KEGONSA (42.95762, -89.29236)

INSPECTION ITEMS

CONTRACTOR SHALL STRICTLY ADHERE TO THE FOLLOWING CODE STANDARDS UNLESS OTHERWISE NOTED WITHIN THE DRAWING; NEC. 2017, IBC. 2015, IFC. 2015 AND APPLICABLE LOCAL CODES.

PROGRESS INSPECTIONS:

- ROUGH ELECTRIC: REQUIRED NOT REQUIRED
 ROUGH BUILDING: REQUIRED NOT REQUIRED

FINAL INSPECTIONS:

- ELECTRIC: REQUIRED NOT REQUIRED
 BUILDING: REQUIRED NOT REQUIRED
 OTHER: REQUIRED NOT REQUIRED

CONTRACTOR SHALL BE KNOWLEDGEABLE OF ANY LOCAL AHJ INSPECTIONS REQUIRED NOT LISTED.



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SCOPE OF WORK

- CONTRACTOR SHALL ACCEPT, VERIFY AND INSTALL ALL MATERIAL AS LISTED ABOVE AND ON THE B.O.M. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE DEVELOPER IMMEDIATELY.
- ALL EQUIPMENT AND MATERIAL SHALL BE INSTALLED AS PER MANUFACTURES GUIDELINES SET FORTH IN THE INSTRUCTION MANUAL AND AS PER NEC. 110.
- CONTRACTOR SHALL PROVIDE PROTECTIVE MATERIALS TO PREVENT DAMAGE TO EXISTING BUILDINGS OR EQUIPMENT AND PROPOSED BUILDINGS OR EQUIPMENT.
- CONTRACTOR SHALL PERFORM A PRE-CONSTRUCTION SITE WALK AT LEAST 5 DAYS PRIOR TO MOBILIZATION TO CONFIRM SITE CONDITIONS, STAGING AREAS AND ANY OTHER SITE SPECIFIC DETAILS REQUIRED. ANY ISSUES SHALL BE PHOTO DOCUMENTED ALONG WITH A WRITTEN REPORT AND PROVIDED IMMEDIATELY TO THE NECESSARY PARTIES.
- IF DEVELOPER IS NOT CALLED, CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL TESTING/INSPECTION REQUIRED TO APPROVE SITE AT ENGINEERS DISCRETION.
- PRIOR TO FINAL SIGN-OFF THE CONTRACTOR SHALL PROVIDE A LETTER OF COMPLIANCE FOR THE WORK DONE. THE LETTER MUST REFERENCE THAT THE WORK WAS DONE IN ACCORDANCE TO THE DRAWINGS AND IN COMPLIANCE WITH THE CODE OF THE APPLICABLE AUTHORITY HAVING JURISDICTION.

LOCATION MAP



NOTES

- THE APPLICANT PROPOSES TO INSTALL PV MODULES AND WEATHER PROOF EQUIPMENT FOR AN UNMANNED FACILITY.
- EQUIPMENT IS UNMANNED AND NOT FOR HUMAN HABITATION, HANDICAP ACCESS IS THEREFORE NOT REQUIRED.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. NON-CONFORMING CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NON-CONFORMING MATERIALS OR CONDITIONS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER AND DEVELOPER FOR REMEDIAL OR CORRECTIVE ACTION.
- DEVELOPMENT AND USE OF THE SITE WILL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES.

DISCLAIMER

IT IS A VIOLATION OF THE LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER TO ALTER THIS DOCUMENT. UNLESS EXPLICITLY AGREED TO BY THE ENGINEER IN WRITING, THE ENGINEER DISCLAIMS ALL LIABILITY ASSOCIATED WITH THE REUSE, ALTERATION OR MODIFICATION OF THE CONTENTS HEREIN.

LICENSED ELECTRICAL ENGINEER certifies that they prepared all the electrical "E" sheets in this drawing set.
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SITE INFORMATION

PROPERTY OWNER: UW KEGNOSA
 POWER COMPANY: ALLIANT ENERGY
 PROJECT MANAGER: TBD PHONE: TBD
 APPROX. FENCE LINEAR FEET: 3261'-2"
 APPROX. SITE ACREAGE: 15 ACRES

AERIAL MAP



DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE DEVELOPER OR ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

DWG NO:

DRAWING INDEX
SHEET TITLE

T-1.00	TITLE SHEET
GN-1.00	GENERAL NOTES
GN-2.00	GENERAL NOTES
PV-1.00	CONCEPTUAL ARRAY LAYOUT
PV-1.01	CONCEPTUAL ARRAY TYPES
PV-1.02	PRIME FARMLAND VS SOLAR
PV-1.03	CONCEPTUAL VEGETATION
E-1.00	ONE-LINE DIAGRAM
E-3.00	DETAILS
E-4.00	SPEC SHEETS
E-5.00	NEC LABELS

9	PRELIM 11/10/2022		
8	PRELIM 11/10/2022		
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2	09/13/2022		
REV	SET/DATE	REV	SET/DATE
DRAWN BY: CR		CHECKED BY: RA	
SCALE: AS NOTED		JOB NO: 01730	

ALLIANT
 UW KEGONSA
 (42.957620,-89.292360)

SHEET TITLE
 TITLE SHEET

DWG. NO.
 T-1.00

DC COMBINERS TO BE PLACED STRATEGICALLY IN THE ARRAY FIELD

50'-0"

UNDERGROUND FIBER AND PRIMARY CABLE FROM SCHNEIDER DR. TO DYERSON TO POI ON B

15FT WIDE ACCESS ROAD

15FT WIDE ACCESS GATE
PROPOSED TEMPORARY LOADING/UNLOADING AREA

EQUIPMENT PAD
(1) MAIN SWITCHBOARD
RELAY
METER

(1) TRANSFORMER
INVERTERS AND DC DISCONNECTS
RESEARCH EQUIPMENT STORAGE

EXCLUSION ZONE LIMITS

LOCATION OF AGRICULTURE EQUIPMENT CROSSING ACCESS

NORTHERN PRIME FARMLAND

ZONING DISTRICT AT-35
PARCEL ID. 028/0610-271-8000-4

ZONING DISTRICT AT-35
PARCEL ID. 028/0610-271-9500-7

PARCEL BOUNDARY

SOUTHERN PRIME FARMLAND

8FT TALL DEER FENCE

WETLANDS

100'-0" WETLANDS BUFFER

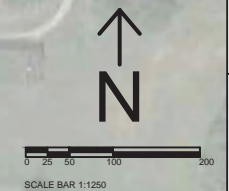
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SHEET TITLE
CONCEPTUAL ARRAY LAYOUT

DWG. NO.
PV-1.00



DC COMBINERS TO BE PLACED STRATEGICALLY IN THE ARRAY FIELD

UNDERGROUND FIBER AND PRIMARY CABLE FROM SCHNEIDER DR. TO DYERSON TO POI ON B

CROP LINE

15FT WIDE ACCESS ROAD

15FT WIDE ACCESS GATE

VEGETATION SCREENING SHRUBBERY

50'-0"

378'-0"

321'-1"

EXCLUSION ZONE LIMITS

LOCATION OF AGRICULTURE EQUIPMENT CROSSING ACCESS

82'-8"

NORTHERN PRIME FARMLAND

ZONING DISTRICT AT-35

PARCEL ID. 028/0610-271-8000-4

PARCEL BOUNDARY

VEGETATION SCREENING SHRUBBERY AS REQUESTED BY NEIGHBOR

1146'-9"

ZONING DISTRICT AT-35

PARCEL ID. 028/0610-271-9500-7

SOLAR ARRAYS

31'-7"

903'-10"

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SCALE: AS NOTED		JOB NO: 01730	

WETLANDS

SOUTHERN PRIME FARMLAND

146'-6"

206'-6"

8FT TALL DEER FENCE

VEGETATION SCREENING SHRUBBERY AS REQUESTED BY NEIGHBOR

100'-0" WETLANDS BUFFER

398'-4"



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SHEET TITLE
CONCEPTUAL VEGETATION

DWG. NO.
PV-1.03

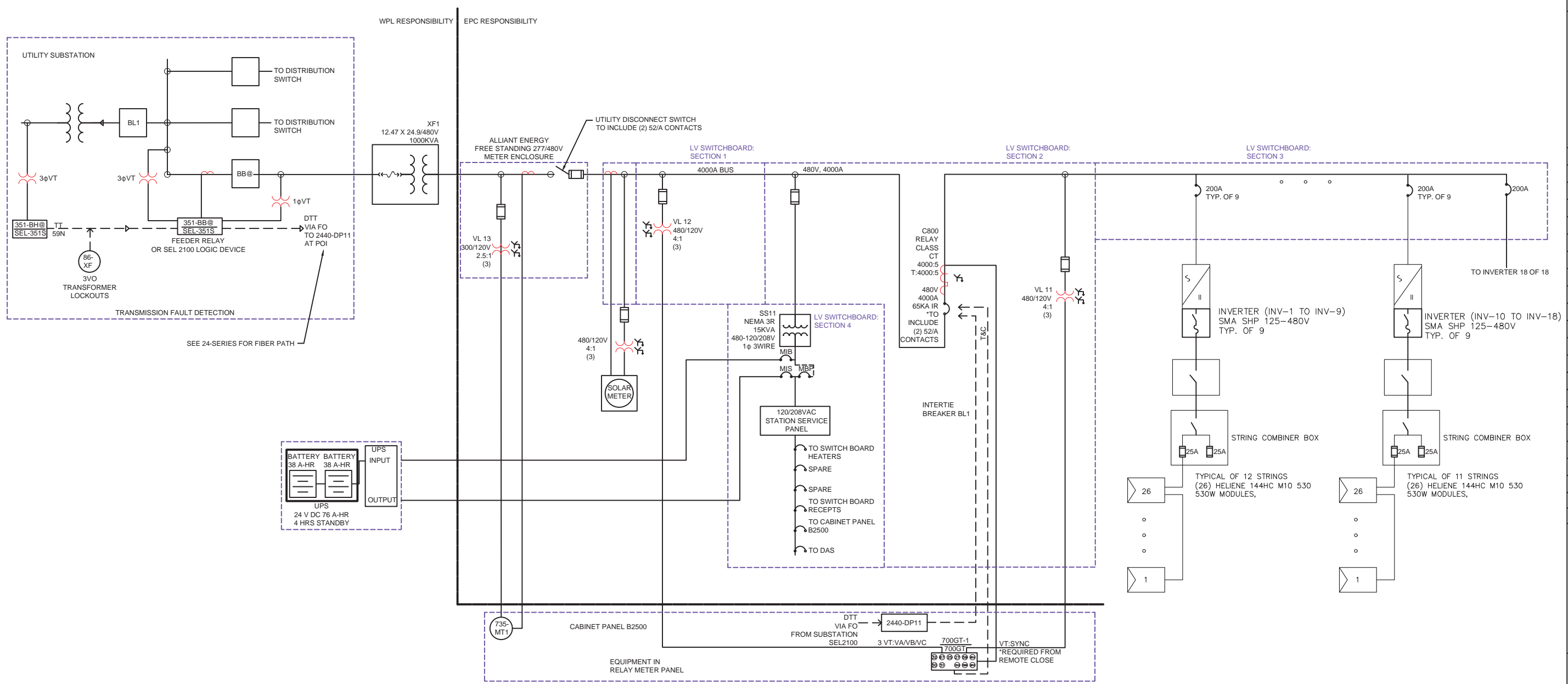
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CLAMPS:	N/A
AZIMUTH:	180°
ARRAY PITCH:	32'-3"
ARRAY TILT:	25°



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SHEET TITLE
 ONE LINE DIAGRAM

DWG. NO.
E-1.00



144HC M10 Bifacial Module

144 Half-Cut Monocrystalline 520W – 540W



21%

Utilizes the latest M10 size super high efficiency Monocrystalline PERC cells. Half cut design further reduces cell to module (CTM) losses.

Stability & Looks

Rugged, double ribbed frame design withstands wind, snow, and other mechanical stresses. Framed Glass-Backsheet aesthetic is ideal for high visibility installation.

Anti-Reflective

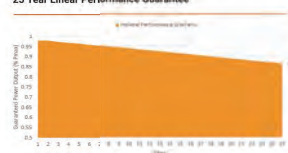
Premium solar glass with anti reflective coating delivers more energy throughout the day

High Reliability

Proven resistance to PID and reliable in high temperature and humidity environments.

No Compromise Guarantee

15 Year Workmanship Warranty
25 Year Linear Performance Guarantee



Manufactured Using International Quality System Standards: ISO9001

Half-Cut Design with Split Junction Box Technology

Bifacial Technology Enabling Additional Energy Harvest from Rear Side

1500V System Voltage Rating

World-class Quality

- Heliene's fully automated manufacturing facilities with state-of-the-art robotics and computer aided inspection systems ensure the highest level of product quality and consistency
- All manufacturing locations are compliant with international quality standards and are ISO 9001 certified
- Heliene modules have received Top Performer rankings in several categories from PV Excellence Labs (PV EL) independent quality evaluations

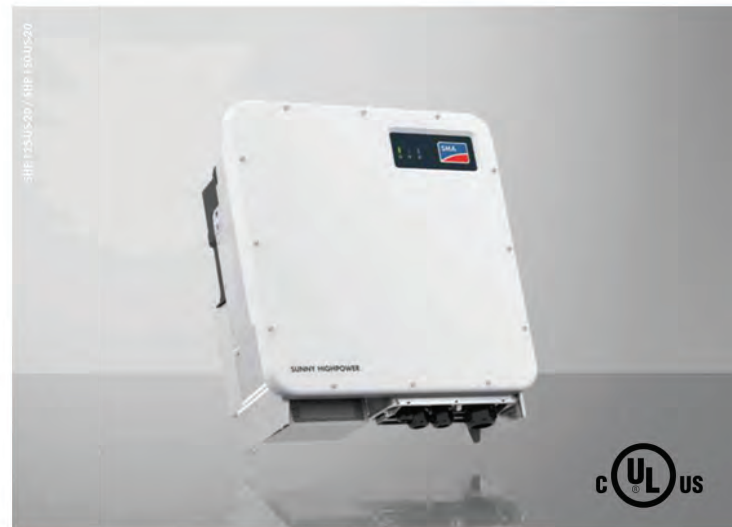
Local Sales, Service, and Support

- With sales offices across the U.S. and Canada, Heliene prides itself on unsurpassed customer support for our clients. Heliene has become the brand of choice for many of the leading residential installers, developers and Independent Power Producers due to our innovative technology, product customization capability and just in time last-mile logistics support.
- Local sales and customer support teams answer phone calls and investigate answers to your technical and logistics questions. We understand your project schedules often change with life warning and endeavor to work with you to solve your project management challenges

Bankable Reputation

- Established in 2010, Heliene is recognized by Bloomberg New Energy Finance (BNEF) as Tier 1 manufacturer of solar modules and has been approved for use by the U.S. Department of Defense, U.S. Army Corps of Engineers and from numerous top tier utility scale project debt providers
- By investing heavily in research and development, Heliene has been able to stay on the cutting edge of advances in module technology and manufacturing efficiency

SUNNY HIGHPOWER PEAK3 125-US / 150-US



- Cost effective**
 - Modular architecture reduces BOS and increases system uptime
 - Compact design and high power density maximize transportation and logistical efficiency
- Maximum flexibility**
 - Scalable 1,500 VDC building block with best-in-class performance
 - Flexible architecture creates scalability while maximizing land usage
- Simple install, commissioning**
 - Ergonomic handling and simple connections enable quick installation
 - Centralized commissioning and control with SMA Data Manager
- Highly innovative**
 - SMA Smart Connected reduces O&M costs and simplifies field service
 - Powered by award-winning enexOS smart sector energy management platform

SUNNY HIGHPOWER PEAK3 125-US / 150-US

A superior modular solution for large-scale power plants

The PEAK3 1,500 VDC inverter offers high power density in a modular architecture that achieves a cost-optimized solution for large-scale PV integrators. With fast, simple installation and commissioning, the Sunny Highpower PEAK3 is accelerating the path to energization. SMA has also brought its field-proven Smart Connected technology to the PEAK3, which simplifies O&M and contributes to lower lifetime service costs. The PEAK3 power plant solution is powered by the enexOS smart sector energy management platform, 2018 winner of the Intersolar smarter E AWARD.

Technical Data	Sunny Highpower PEAK3 125-US	Sunny Highpower PEAK3 150-US
Input (DC)		
Maximum array power	187500 Wp STC	225000 Wp STC
Maximum system voltage	1500 VDC	1500 VDC
Rated MPPT voltage range	705 V ... 1450 V	880 V ... 1450 V
MPPT operating voltage range	684 V ... 1500 V	855 V ... 1500 V
MPPT trackers	1	1
Maximum operating input current		180 A
Maximum input short-circuit current		325 A
Output (AC)		
Nominal AC power	125000 W	150000 W
Maximum apparent power	125000 VA	150000 VA
Output phases / line connection	3 / 3PE	3 / 3PE
Nominal AC voltage	480 V	600 V
Compatible transformer winding configuration		Wye-grounded
Maximum output current	151 A	151 A
Rated grid frequency	60 Hz	60 Hz
Grid frequency / range	50 Hz, 60 Hz / 4 Hz ... +6 Hz	50 Hz, 60 Hz / 4 Hz ... +6 Hz
Power factor of rated power / adjustable displacement	1 / 0.0 leading ... 0.0 lagging	1 / 0.0 leading ... 0.0 lagging
Harmonics (THD)		<3%
Efficiency		
CEC efficiency	98.5 %	99.0 %
Protection and safety features		
Ground fault monitoring: Rise / Differential current	• / •	• / •
DC reverse polarity protection	•	•
AC short circuit protection	•	•
Monitored surge protection (Type 2): DC / AC	• / •	• / •
Protection class / overvoltage category (in per UL 840)	1 / II	1 / II
General data		
Device dimensions (W / H / D)	770 / 820 / 444 mm (30.3 / 32.7 / 17.5 in.)	770 / 820 / 444 mm (30.3 / 32.7 / 17.5 in.)
Device weight	98 kg (216 lb)	98 kg (216 lb)
Operating temperature range	25°C ... +60°C (15°F ... +140°F)	25°C ... +60°C (15°F ... +140°F)
Storage temperature range	40°C ... +70°C (140°F ... +158°F)	40°C ... +70°C (140°F ... +158°F)
Audible noise emission (full power @ 1m and 25°C)	< 69 dB(A)	< 69 dB(A)
Internal consumption at night	< 5 W	< 5 W
Topology	Transfomerless	Transfomerless
Cooling concept	CipCool (forced convection, variable speed fan)	CipCool (forced convection, variable speed fan)
Enclosure protection rating	Type 4X (in per UL 50E)	Type 4X (in per UL 50E)
Maximum permissible relative humidity (noncondensing)	100%	100%
Additional Information		
Mounting	Back mount	Back mount
DC connection	Terminal lugs: up to 600 kcmil CU/AL	Terminal lugs: up to 600 kcmil CU/AL
AC connection	Screw terminals: up to 350 kcmil CU/AL	Screw terminals: up to 350 kcmil CU/AL
LED indicators (Status/Ready/Commission)	•	•
SMA Speechwire (Ethernet network interface)	•	•
Data protocols: SMA Modbus / SunSpec Modbus	• (2 x 64k) pairs	• (2 x 64k) pairs
Integrated Farm Control / Q on Demand 24/7	•	•
CEGrid capable / SMA Hybrid Controller compatible	•	•
SMA Smart Connected (proactive monitoring and service)	•	•
Certifications		
Certifications and approvals	UL 62109, UL 1998, CAN/CSA C22.2 No. 62109	UL 62109, UL 1998, CAN/CSA C22.2 No. 62109
FCC compliance	FCC Part 15, Class A	FCC Part 15, Class A
Grid interconnection standards	IEEE 1547, UL 1741 SA, CA Rule 21, HECC Rule 14H	IEEE 1547, UL 1741 SA, CA Rule 21, HECC Rule 14H
Advanced grid support capabilities	L/HVRT, U/HVRT, Volt-VAr, Volt-Watt, Frequency-Watt, Ramp Rate Control, Fixed Power Factor	L/HVRT, U/HVRT, Volt-VAr, Volt-Watt, Frequency-Watt, Ramp Rate Control, Fixed Power Factor
Warranty		
Standard	5 years	5 years
Optional extensions	10 / 15 / 20 years	10 / 15 / 20 years
Type designation	SHF 125-US-20	SHF 150-US-20
Technical data as of May 2020	• Standard features	○ Optional features

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SMA America, LLC

NOTES:

THESE SPEC SHEETS ARE REPRESENTATIVE



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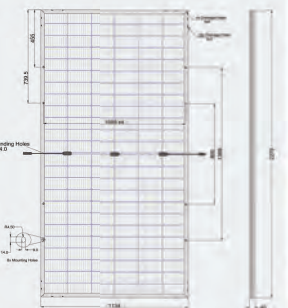
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UW KEGONSA
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SHEET TITLE
SPEC SHEETS

DWG. NO.
E-4.00

Dimensions for 144HC M10 Bifacial Series Modules



Electrical Data (STC)

Peak Rated Power	P_{max} (W)	540	530	520
Maximum Power Voltage	V_{mp} (V)	42.32	41.94	41.56
Maximum Power Current	I_{mp} (A)	12.77	12.64	12.52
Open Circuit Voltage	V_{oc} (V)	50.22	49.72	48.73
Short Circuit Current	I_{sc} (A)	13.50	13.37	13.28
Module Efficiency *	EFF (%)	20.9	20.5	20.1
Maximum Series Fuse Rating	MF (A)	30	30	30
Power Output Tolerance		[-0/+3%]		
Bifaciality Factor		70%		

STC - Standard Test Conditions: Irradiation 1000 W/m² - Air mass 1.5 - Cell temperature 25°C

Electrical Data (NMOT)

Maximum Power	P_{max} (W)	400	390	380
Maximum Power Voltage	V_{mp} (V)	39.19	38.58	37.96
Maximum Power Current	I_{mp} (A)	10.21	10.11	10.01
Open Circuit Voltage	V_{oc} (V)	47.13	46.66	45.73
Short Circuit Current	I_{sc} (A)	10.87	10.77	10.70

NMOT - Nominal Module Operating Temperature: Irradiance at 600W/m², Ambient Temperature 20°C, Wind speed 1m/s

Mechanical Data

Solar Cells	144 Half Cut, M10, 182mm, PERC Cells
Module Construction	Framed Glass-Backsheet
Dimensions (L x W x D)	2279 x 1134 x 40 mm (89.72 x 44.65 x 1.6 inch)
Weight	29.2 kg (64.3 lbs)
Frame	Double Ribbed 1.6 Mil Aluminum Anodized Aluminum Alloy
Glass	3.2mm Low-Iron Content, High-Transmission, PV Solar Glass with Anti Reflective Coating
Junction Box	IP68 rated with 3 bypass diode
Output Cables	0.3-meter Symmetrical Cables
Connectors	MC4 Compatible

Certifications

UL Certification: UL61215, UL61730

Temperature Ratings

Nominal Operating Cell Temperature (NOCT)	44°C (12°C)
Temperature Coefficient of P_{max}	-0.36%/°C
Temperature Coefficient of V_{oc}	-0.28%/°C
Temperature Coefficient of I_{sc}	0.034%/°C

Maximum Ratings

Operational Temperature	-40°C to +85°C
Max System Voltage	1500V
Mech Load Test (Front)	113 psf / 5400 Pa
Mech Load Test (Back)	50 psf / 2400 Pa

Warranty

15 Year Manufacturer's Workmanship Warranty
25 Year Linear Power Guarantee

Packaging Configuration

Modules per box: 27 pieces
Modules per 53' trailer: 702 pieces

