Applic	cation ID	(CORE use only)	:	Received:	

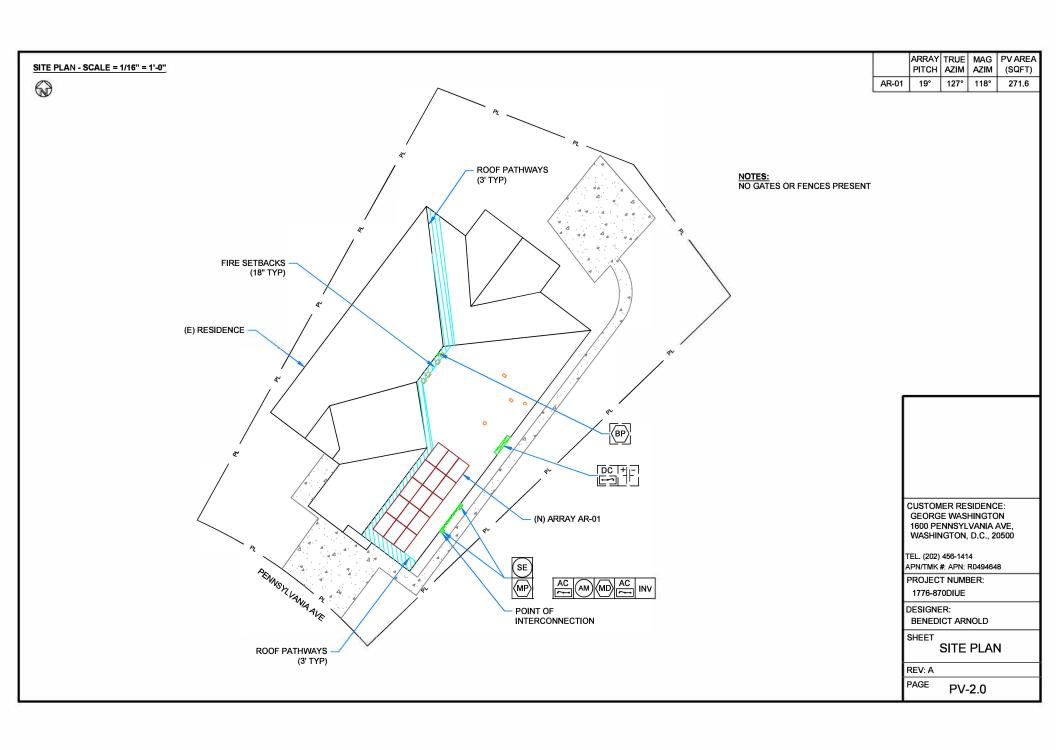
Level 1Application and/or Energy Storage Application

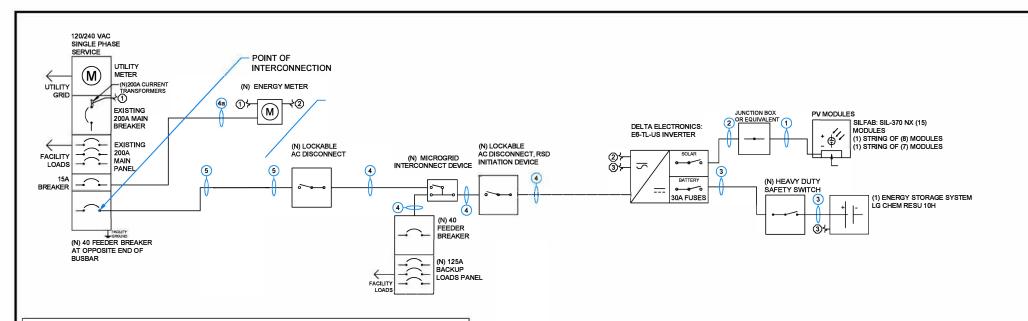
Interconnecting a Certified Inverter-Based Small Generating Facility No Larger than Twenty-five (25) kW for Residential or Twenty-five (25) kW for Commercial

<u>Interconnection Customer Information</u>	<u>1</u>
Name: George Washington	Contact Person: George Washington
Account Number: 12345678	
Address: 1600 Pennsylvania Ave	
City: WashingtonState:	D.C. Zip: 20500
Phone Number: <u>(202) 456-1111</u>	E-Mail gwash76@revolutionary.com
<u>Equipment Installation Contractor/Ele</u>	ctrical Contractor (If different from above)
Contact Name: Benedict Arnold	
Company Name: Redcoat Solar Inc.	
Contact Phone Number: (202) 456-1414	E-Mail Address: contractor@redcoatsolar.com
Inverter Manufacturer: Delta Inverter Nameplate AC Rating: 6 Inverter Output AC settings Rating: 6 Projected Annual Energy Production:	(kW)(supporting documents required for export limiting) 9160 (kWh) 120/208 277/480
Energy Storage Information: New Existing Not App Energy Storage Inverter Manufacture	er: Delta Model: E6-TL-US
Total Energy Storage Size: 5	
Batteries are subject to no-export rest	rictions.

<u>Please include the following documentation: one-line diagram, site plan (showing all equipment location and fencing), specification sheets for modules, batteries, and inverter(s). \$195 Application Processing Fee</u>

Application ID (CORE use only):
This Application shall be deemed complete when the Interconnection Customer provides all applicable and correct information required below, as well as any additional information required by CORE to evaluate the Request. The terms of this Application are governed by the provisions applicable to the Level 1 Process of CORE's Small Generation Interconnection Procedures and/or Energy Storage Procedure, as the same may be amended, modified, or restated from time to time.
Interconnection Customer Signature
I hereby certify that, to the best of my knowledge, the information provided in this Application is true. I agree to abide by the Terms and Conditions for Interconnecting an Inverter-Based Small Generating Facility No Larger than twenty-five (25) kW for residential or twenty-five (25) kW for commercial and return the Certificate of Completion when the Small Generating Facility has been installed. I further agree that CORE shall be entitled to any renewable energy credits or other similar attributes associated with the production of electricity by the equipment referred to in this application upon interconnection of that equipment, until such time as CORE is notified in writing of the transfer or assignment of such credits or attributes to a third party.
I UNDERSTAND THAT ONLY SYSTEMS UP TO LESSER OF 200% OF THE 12 MONTH HISTORICAL USAGE AT THE METER LOCATION, OR 10 KW FOR RESIDENTIAL, OR 25 KW FOR COMMERCIAL ARE ELIGIBLE FOR NET METERING.
I UNDERSTAND THAT CORE HAS THE RIGHT TO CHANGE ITS RATES AT ANY TIME AND THAT FUTURE REVISIONS MAY INCLUDE A REDUCTION IN THE ENERGY CREDIT RATE, THE ADDITION OF A DEMAND CHARGE, AN INCREASED SERVICE CHARGE, A MODIFICATION TO THE COMPENSATION PAID FOR ANNUAL EXCESS GENERATION, OR OTHER CHANGES THAT WOULD ALLOW CORE TO RECOVER COSTS OF PROVIDING SERVICE TO NET METERING AND OTHER CUSTOMERS.
I UNDERSTAND THAT SUCH REVISIONS, IF ADOPTED, MAY AFFECT THE RELATIVE COSTS AND ECONOMIC BENEFITS OF MY GENERATION EQUIPMENT AND I ACKNOWLEDGE THAT IN AGREEING TO INTERCONNECT MY GENERATION EQUIPMENT, CORE RESERVES ITS RIGHT TO ESTABLISH RATES DESIGNED TO FULLY RECOVER ITS COSTS AND MAKES NO COMMITMENT TO ME THAT IT WILL CONTINUE ITS CURRENT RATES OR RATE STRUCTURE FOR ANY PERIOD OF TIME.
Signed:
Title: Date:
Contingent Approval (For CORE use only)
Interconnection of the Small Generating Facility and/or Inverter-Based Energy Storage Device is approved contingent upon the Terms and Conditions for Interconnecting an Inverter-Based Small Generating Facility No Larger than twenty-five (25) kW for residential or twenty-five (25) kW for commercial and return of the Certificate of Completion.
Intermountain Rural Electric Association d/b/a CORE Electric Cooperative Signature:
Title: Date:
Level 1 Generator Interconnect and/or Energy Storage Application Page 2





CON	CONDUIT SCHEDULE							
#	CONDUIT	CONDUIT CONDUCTOR		GROUND				
1	NONE	(4) 10 AWG PV WIRE	NONE	(1) 10 AWG BARE COPPER				
2	3/4" EMT OR EQUIV.	(4) 10 AWG THHN/THWN-2	NONE	(1) 10 AWG THHN/THWN-2				
3	3/4" EMT OR EQUIV.	(2) 10 AWG THHN/THWN-2	NONE	(1) 10 AWG THHN/THWN-2				
4	3/4" EMT OR EQUIV.	(2) 8 AWG THHN/THWN-2	(1) 8 AWG THHN/THWN-2	(1) 8 AWG THHN/THWN-2 EGC/GEC				
4a	3/4" EMT OR EQUIV.	(2) 14 AWG THHN/THWN-2	(1) 14 AWG THHN/THWN-2	(1) 14 AWG THHN/THWN-2 EGC/GEC				
5	3/4" EMT OR EQUIV.	(2) 6 AWG THHN/THWN-2	(1) 6 AWG THHN/THWN-2	(1) 6 AWG THHN/THWN-2 EGC/GEC				

MODULE CHARACTERISTICS

 JA SOLAR: JAM60S10-340/MR:
 340 W

 OPEN CIRCUIT VOLTAGE:
 41.55 V

 MAX POWER VOLTAGE:
 34.73 V

 SHORT CIRCUIT CURRENT:
 10.46 A

SYSTEM CHARACTERISTICS - INVERTER 1

SYSTEM SIZE: 5100 W
SYSTEM OPEN CIRCUIT VOLTAGE: 378 V
SYSTEM OPERATING VOLTAGE: 278 V
MAX ALLOWABLE DC VOLTAGE: 480 V
SYSTEM OPERATING CURRENT: 19,58 A
SYSTEM SHORT CIRCUIT CURRENT: 26.15 A

CUSTOMER RESIDENCE: GEORGE WASHINGTON 1600 PENNSYLVANIA AVE, WASHINGTON, D.C., 20500

TEL. (202) 456-1414 APN/TMK#: APN: R0494648

PROJECT NUMBER: 1776-870DIUE

DESIGNER:

BENEDICT ARNOLD

SHEET

ELECTRICAL

REV: A1

14-07-2021

PAGE ONE-LINE

Electrical Specifications		SIL-370 NX mono PERC		
Test Conditions		STC	NOCT	
Module Power (Pmax)	Wp	370	266	
Maximum power voltage (Vpmax)	V	37.2	33.7	
Maximum power current (Ipmax)	А	10.0	7.9	
Open circuit voltage (Voc)	V	44.8	40.7	
Short circuit current (Isc)	А	10.6	8.3	
Module efficiency	%	20.2	18.2	
Maximum system voltage (VDC)	V		1000	
Series fuse rating	A	20		
Power Tolerance	Wp	±3%		

Measurement conditions: STC 1000 W/m2 • AM 1.5 • Temperature 25 °C • NOCT 800 W/m² • AM 1.5 • Measurement uncertainty ≤ 3% Sun simulator calibration reference modules from Fraunhofer Institute. Electrical characteristics may vary by ±5% and power by ±3%.

Temperature Coefficient Isc	+0.064 %/°C				
Temperature Coefficient Voc	-0.28 %/°C				
Temperature Coefficient Pmax	-0.36	-0.36 %/°C			
NOCT (± 2°C)	46	5 °C			
Operating temperature	-40/-	⊦85 °C			
Mechanical Properties and Components	SIL-370 NX	mono PERC			
	Metric	Imperial			
Module weight	20±0.2 kg	44±0.4 lbs			
Dimensions (H x L x D)	1832 mm x 1000 mm x 38 mm	72.13 in x 39.4 in x 1.5 in			
Maximum surface load (wind/snow)*	4000 Pa rear load / 5400 Pa front load	83.5/112.8 lb/ft^2			
Hail impact resistance	ø 25 mm at 83 km/h	ø 1 in at 51.6 mph			
Cells	66 - Si mono-PERC - 5 busbar	66 - Si mono-PERC - 5 busbar			
	158.75 x 158.75 mm	62.25 x 62.25 in			
Glass	3.2 mm high transmittance, tempered, DSM anti-reflective coating	0.126 in high transmittance, tempered, DSM anti-reflective coating			
Cables and connectors (refer to installation manual)	1200 mm ø 5.7 mm, MC4 from Staubli	47.2 in, ø 0.22 (12AWG), MC4 from Staubli			
Backsheet	High durability, superior hydrolysis and UV resistance, multi-layer dielectric film, fluorine-free PV backsheet				
Frame	Anodized Aluminum (Black)				
Bypass diodes	3 diodes-30SQ045T (45V max DC blocking voltage, 30A max forward rectified current)				
Junction Box	UL 3730 Certified, IEC 62	2790 Certified, IP67 rated			
Warranties	SIL-370 NX mono PERC				

Module product workmanship warranty 25 years** 30 years Linear power performance guarantee

 \geq 97.1% end 1st year \geq 91.6% end 12th year \geq 85.1% end 25th year \geq 82.6% end 30th year

SIL-370 NX mono PERC ULC ORD C1703, UL1703, CEC listed***, UL 61215-1/-1-1/-2, UL 61730-1/-2,

IEC 61215-1/-1-1/-2***. IEC 61730-1/-2***, CSA C22.2#61730-1/-2, IEC 62716

Ammonia Corrosion; IEC61701:2011 Salt Mist Corrosion Certifed, UL Fire Rating: Type 2

ISO9001:2015

All states except California California

- **Modules Per Pallet: 26**
- **III** Modules Per Pallet: 26
- Pallets Per Truck: 34

Certifications

Product

Factory

Temperature Ratings

- Pallets Per Truck: 32 ■ Modules Per Truck: 884 ■ Modules Per Truck: 832
- *A Warning. Read the Safety and Installation Manual for mounting specifications and before handling,
- installing and operating modules. **12 year extendable to 25 years subject to regis-
- tration and conditions outlined under "Warranty" at www.silfabsolar.com.
- ***Certification and CEC listing in progress.

PAN files generated from 3rd party performance data are available for download at: www.silfabsolar.com/downloads.

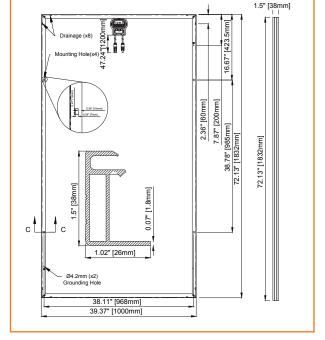


Tel: 888-781-7074



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Silfab Solar Inc. 800 Cornwall Ave Bellingham WA 98225 USA Tel +1 360-569-4733



FI O in



Solar Inverter for North America

SPECIFICATIONS

Model	M4-TL-US	M5-TL-US	M6-TL-US	M8-TL-US	M10-TL-US	
INPUT (DC)						
Maximum system voltage	600 V					
Nominal voltage	380 V					
Maximum operating voltage Voc			540 V			
Operating MPPT range		50 V to 480 V				
Maximum input current (per MPPT)	12 A	12 A	12 A	12 A	20 A	
Maximum short circuit current @ STC	15 A / 15 A	15 A / 15 A	15 A / 15 A / 15 A	15 A / 15 A / 15 A	25 A / 25 A	
Maximum DC/AC ratio		•	1.3			
DC disconnect			Integrated			
MPP tracker	2	2	3	3	2	
Input strings available	2 - 2	2 - 2	2 - 2 - 2	2 - 2 - 2	2 - 2	
OUTPUT (AC)						
Nominal power @ 240V	3840 W	4800 W	5760 W	7680 W	9600 W	
Maximum output power	4000 W	5000 W	6000 W	8000 W	10000 W	
Voltage range	183 Vac to 228 Vac @ 208 Vac 211 Vac to 264 Vac @ 240 Vac					
Maximum continuous current	16 A	20 A	24 A	32 A	40 A	
Nominal frequency	60 Hz					
Frequency range	59.3 Hz to 60.5 Hz					
Adjustable frequency range	50 Hz to 66 Hz					
Night consumption	< 1.5 W *					
THD @ nominal power	< 3 %					
Power factor @ nominal power			> 0.99			
Adjustable power factor range	0.85i to 0.85c					
GENERAL SPECIFICATION						
Maximum efficiency			98%			
CEC efficiency	97.0 % @ 208 V 97.5 % @ 240 V	97.5 % @ 208 V 97.5 % @ 240 V	97.0 % @ 208 V 97.5 % @ 240 V	97.5 % @ 208 V 97.5 % @ 240 V	97.5 % @ 208 V 97.5 % @ 240 V	
Operating temperature range	-22 °F to 149 °F (-30 °C to 65 °C) de-rating above 113 °F (45 °C)					
Storage temperature range		-40 °	F to 185 °F (-40 °C to	9 85 °C)		
Humidity			0% to 95%			
Maximum operating altitude			9,843 ft (3,000 m)			
Acoustic noise	< 45 dB(A) @ 3 ft (1m)					



Solar Inverter for North America

SPECIFICATIONS

Model	M4-TL-US	M5-TL-US	M6-TL-US	M8-TL-US	M10-TL-US	
MECHANICAL DESIGN						
Dimensions (W x H x D)		16.7 x 23.2 x 5.9 in (425 x 590 x 150 mm)				
Weight ¹⁾	41.9 lbs (19.0 kg)	41.9 lbs (19.0 kg)	44.3 lbs (20.1 kg)	45.2 lbs (20.5 kg)	47.6 lbs (21.6 kg)	
Cooling		Natural convection		Natural convection	on with internal fan	
DC connection			Spring contact type	•		
Admissible conductor size DC			AWG 12 to AWG 8		AWG 10 to AWG 8	
AC connection			Spring contact type	•		
Admissible conductor size AC			AWG 10 to AWG 6		AWG 8 to AWG 6	
Communication interface		BLE, optional WiFi,	Ethernet, 3G / 4G ce	ellular communication		
Enclosure material	Die-casting aluminum					
STANDARDS / DIRECTIVES						
Enclosure protection rating	Type 4					
Safety	UL 1741, CSA-C22.2 No. 107.1-01					
Software approval	UL 1998					
Ground fault protection	UL 1741 CRD					
Anti-islanding protection		II.	EEE 1547, IEEE 154	7.1		
EMC			FCC part 15 Class I	3		
AFCI	UL 1699B (Type 1), NEC 2017 Article 690.11					
Integrated meter	ANSI C12.20 (meets 0.5% accuracy)					
Grid support regulation	UL 1741 SA, California Rule 21 phase 1, 2 (pending), HECO Compliant					
WARRANTY						
Standard warranty 10 years						



Without communication meter

Delta Electronics (Americas), Ltd. 46101 Fremont Blvd, Fremont, CA 94538 Sales Email: Inverter.Sales@deltaww.com Support Email: Inverter.Support@deltaww.com Sales Hotline: +1-877-440-5851 or +1-626-369-8021 Support Hotline: +1-877-442-4832 Support (Intl.): +1-626-369-8019 Monday to Friday from 6am to 6pm PST (apart from Holidays) www.Delta-Americas.com





Product Specification (1/2)

RESU10H

Solaredge compatible

Electrical Characteristics			
Total Energy		9.8 kWh @25°C (77°F)	
Usable Energy ¹⁾		9.3 kWh @25°C (77°F)	
Valtana Danna	Charge	400 ~ 450 VDC	
Voltage Range	Discharge	350 ~ 430 VDC	
Absolute Max. Voltage		520VDC	
Max. Charge/Discharge Cu	rrent	11.9A@420V / 14.3A@350V	
Max. Charge/Discharge Por	wer ²⁾	5kW	
Peak Power (only discharg	ing) ³⁾	7kW for 10 sec.	
Peak Current (only dischar	ging)	18.9A@370V for 10 sec.	
Communication Interface		RS485	
DC Disconnect		Circuit Breaker, 25A, 600V rating	
Connection Method		Spring Type Connector	
User interface		LEDs for Normal and Fault operation	
Protection Features		Over Voltage / Over Current / short circuit / Reverse Polarity	
Scalability (Total Energy, Max. Charge/Discharge Power, Peak Power (only discharging))		Max. 2 in parallel (19.6 kWh @25°C (77°F), 6.6KW, 7kW for 10 sec.)	

Operating Conditions		
Installation Location	Indoor(Wall-Mounted) / Outdoor	
Operating Temperature	14 ~ 113°F (-10 ~ 45°C)	
Operating Temperature (Recommended)	59 ~ 86°F (15 ~ 30°C)	
Storage Temperature	-22 ~ 131°F (-30 ~ 55°C)	
Humidity	5%~95%	
Altitude	Max. 6,562ft (2,000m)	
Cooling Strategy	Natural Convection	

Certification				
Safety	Cell	UL1642		
Salety	Battery Pack	UL1973 / CE / RCM / TUV (IEC 62619)		
Emissions		FCC		
Hazardous Materials Class	ification	Class 9		
Transportation		UN38.3 (UNDOT)		
Ingress Rating		IP55		

- * Test Conditions Temperature 25°C, at the beginning of life
- ** Total Energy is measured under specific condition from LGC(0.3CCCV/0.3CC)
- DC/DC Discharge Efficiency 94.5%
- 1) Value for Battery Cell Only (Depth of Discharge 95%), 2kW charge/discharge power.
- 2) LG Chem recommends 3.3kW for maximum battery lifetime
- 3) Peak Current excludes repeated short duration (less than 10 sec. of current pattern).



Product Specification (2/2)

RESU10H

Solaredge compatible

Mechanical Characteristics				
	Width	744 mm (29.3")		
Dimensions	Height	907 mm (35.7")		
	Depth	206 mm (8.1")		
Weight		97 kg (214lbs)		

