

INSTALLATION NOTES

1.STRUCTURAL ROOF MEMBER LOCATIONS ARE ESTIMATED AND SHOULD BE LOCATED AND VERIFIED BY THE CONTRACTOR WHEN LAG BOLT PENETRATION OR MECHANICAL ATTACHMENT TO THE STRUCTURE IS REQUIRED.

2.ROOFTOP PENETRATIONS FOR SOLAR RACKING WILL BE COMPLETED AND SEALED WITH APPROVED SEALANT PER CODE BY A LICENSED CONTRACTOR. 3.LAGS MUST HAVE A MINIMUM 2.5" THREAD EMBEDMENT INTO THE STRUCTURAL MEMBER.

4.ALL PV RACKING ATTACHMENTS SHALL BE STAGGERED BY ROW BETWEEN THE ROOF FRAMING

MEMBERS AS NECESSARY.

5.ROOF MOUNTED STANDARD RAIL REQUIRES ONE THERMAL EXPANSION GAP FOR EVERY RUN OF RAIL GREATER THAN 40'.

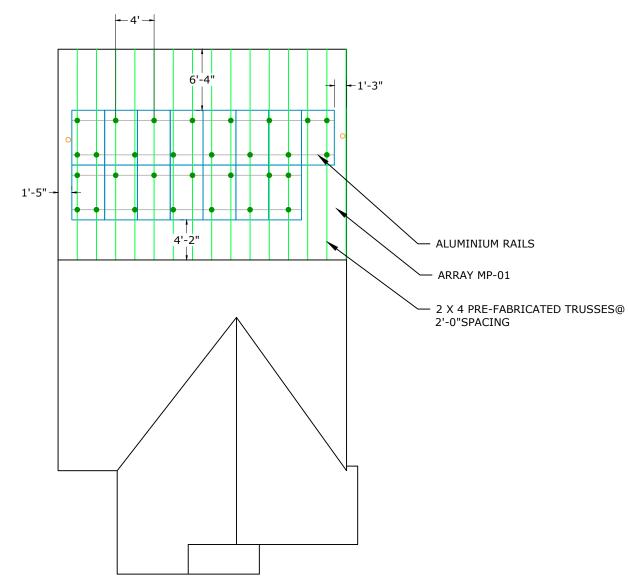
6.ALL CONDUCTORS AND CONDUITS ON THE ROOF SHALL BE MINIMUM 2.5" ABOVE THE ROOF SURFACE (INCLUDING CABLES UNDERNEATH MODULES AND RACKING).

7.THE PV INSTALLATION SHALL NOT OBSTRUCT ANY PLUMBING, MECHANICAL OR BUILDING ROOF VENTS.

SCALE:1"=10'-0"

			SIT	E INFORM	IATION - V	VIND SPEE	D: 117 M	PH AND SNOW LOAD	: 15 PS	5F		
SR. NO	AZIMUTH	PITCH	NO. OF MODULES	ARRAY AREA (SQ. FT.)	ROOF TYPE	ATTACHMENT	ROOF EXPOSURE	FRAME TYPE	FRAME SIZE	FRAME SPACING	MAX RAIL SPAN	OVER HANG
MP-01	9°	30°	15	292.7	COMPOSITION SHINGLE	L FOOT (QUICK BOLT)	ATTIC	PRE-FABRICATED TRUSSES	2 X 4	2'-0"	4'-0"	1'-6"

NOTE: PENETRATIONS ARE STAGGERED

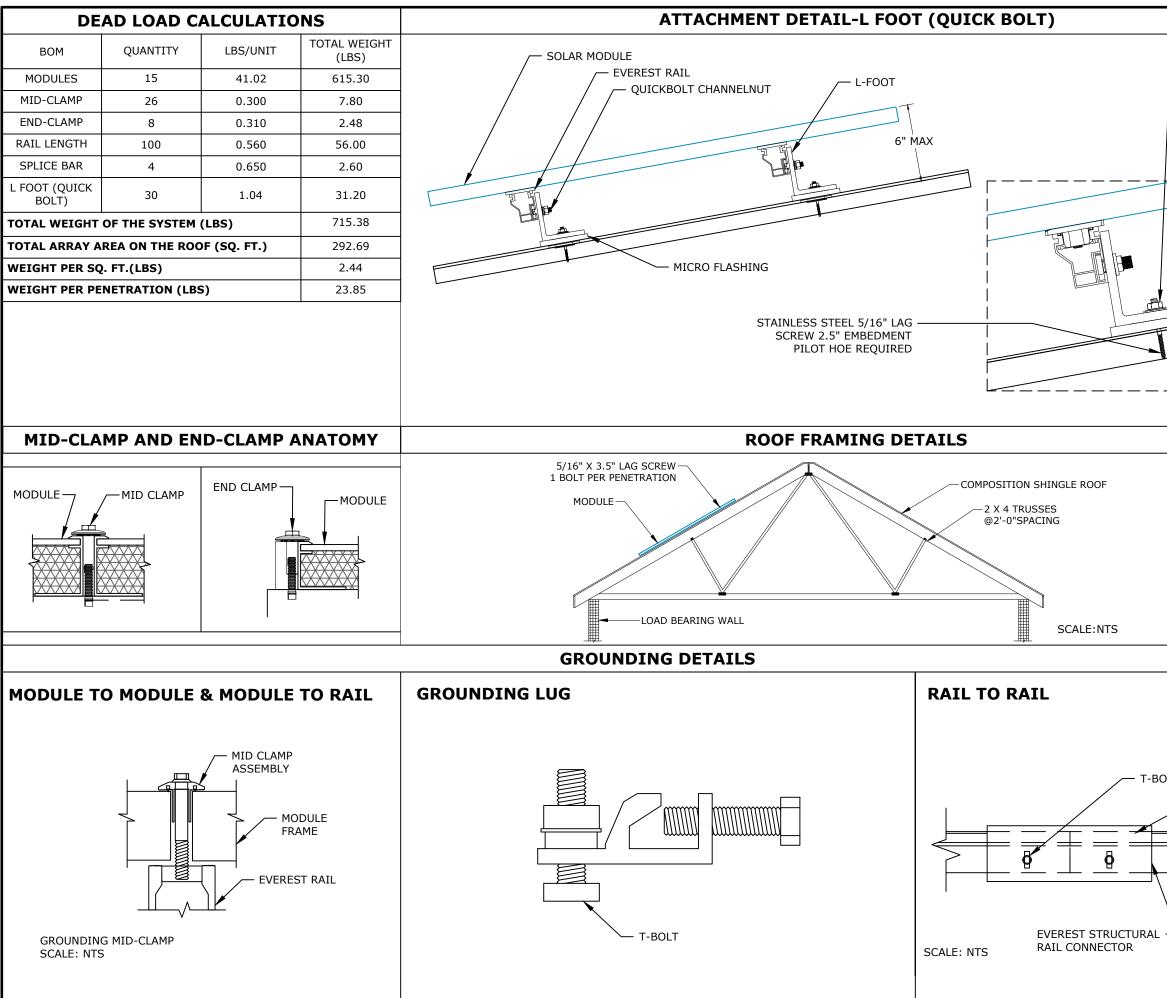






DATE:4/19/2021

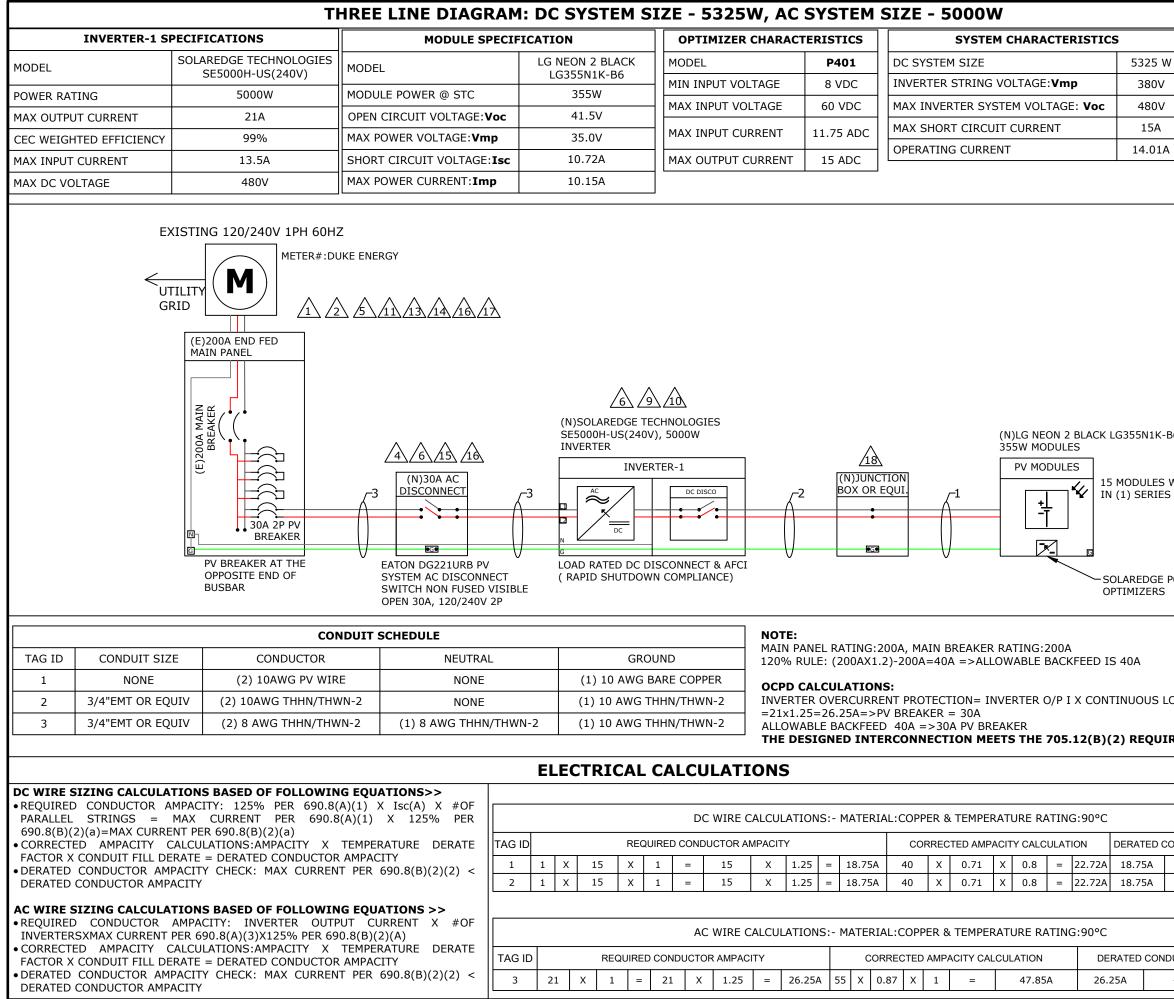
M-1



	MODU	LES DAT	ΓΑ
	LG NEON 2 B	LACK LG355N	1K-B6
	MODULE DIMS	68.50"x41.	02"x1.57"
	LAG SCREWS	5/16"x3.5" EMBED	
– 5/16 HEX-BOLT	UPLIFT C	ALCULAT	IONS
	UPLIFT	8780.8	LBS
	PULL OUT STRENGTH	18450	LBS
	POINT LOADING	21	LBS
SCALE:NTS	Ţ	ITA	N
	s s	OLAR P	OWER
	ADDRESS: 52 MESA AZ,852		NE RD
	MESA AZ,852	10	
		INFORM	
	MESA AZ,852	INFORM INSON	1ATIO
	MESA AZ,852 CUSTOMER NAME:DANIEL JOI ADDRESS:61 WA [*]	INFORM INSON TERVILLE WAY 6 22011	1ATIO
	MESA AZ,852 CUSTOMER NAME:DANIEL JOI ADDRESS:61 WA VARINA, NC 2752 35.493147, -78.8	INFORM INSON FERVILLE WAY 6 22011 0-09-031	1ATIO
	MESA AZ,852 CUSTOMER NAME: DANIEL JOI ADDRESS:61 WA VARINA, NC 2752 35.493147, -78.8 APN: 080-654-01	INFORM INSON TERVILLE WAY 6 22011 0-09-031 IARNETT	1ATIO
	MESA AZ,852 CUSTOMER NAME:DANIEL JON ADDRESS:61 WA VARINA, NC 2752 35.493147, -78.8 APN: 080-654-01 AHJ:NC-COUNTY H	INFORM INSON FERVILLE WAY 6 22011 0-09-031 HARNETT ERGY	1ATIO
T SCREW	MESA AZ,852 CUSTOMER NAME:DANIEL JOI ADDRESS:61 WAT VARINA, NC 2752 35.493147, -78.8 APN: 080-654-01 AHJ:NC-COUNTY H UTILITY:DUKE ENH PRN NUMBER: TPS	INFORM INSON FERVILLE WAY 6 22011 0-09-031 HARNETT ERGY	ATIO Y, FUQUAY
	MESA AZ,852 CUSTOMER NAME: DANIEL JOI ADDRESS:61 WAT VARINA, NC 2752 35.493147, -78.8 APN: 080-654-01 AHJ:NC-COUNTY H UTILITY: DUKE END PRN NUMBER: TPS BRO	INFORM INSON INSON FERVILLE WAY 6 22011 0-09-031 IARNETT ERGY 5-24317	Y, FUQUAY
	MESA AZ,852 CUSTOMER NAME: DANIEL JOI ADDRESS:61 WAT VARINA, NC 2752 35.493147, -78.8 APN: 080-654-01 AHJ:NC-COUNTY H UTILITY: DUKE END PRN NUMBER: TPS BRO	INFORM INSON INSON FERVILLE WAY 22011 0-09-031 IARNETT ERGY 5-24317 UNIN Cause quality URAL DE	Y, FUQUAY
	MESA AZ,852 CUSTOMER NAME:DANIEL JOI ADDRESS:61 WAT VARINA, NC 2752 35.493147, -78.8 APN: 080-654-01 AHJ:NC-COUNTY H UTILITY:DUKE ENI PRN NUMBER: TPS INFO BRN NUMBER: TPS BRN STRUCT DESIGNER /CHECH	INFORM INSON INISON INSO	AATIO Y, FUQUAY

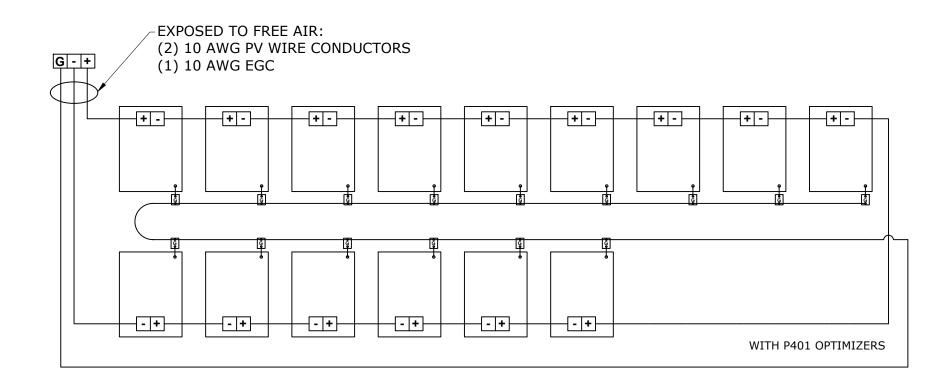
	INVERTER-1 SE	PECIFICATIONS	MODULE SE	PECIFICATION	OPTIMI7FR	OPTIMIZER CHARACTERISTICS		SYSTEM CHARACTERISTICS				
MODEL		SOLAREDGE TECHNOLOGIES	MODEL	LG NEON 2 BL	ACK MODEL		P401	DC SYSTE				5325 W
-		SE5000H-US(240V)	-	LG355N1K-F	36 MIN INPUT VO	DLTAGE	8 VDC	INVERTER	STRING VOL	TAGE: Vmp		380V
POWER RAT	-	5000W	MODULE POWER @ STC	355W	MAX INPUT VC	OLTAGE	60 VDC	MAX INVE	RTER SYSTEM	1 VOLTAGE:	Voc	480V
	UT CURRENT	21A			MAX INPUT CL		11.75 ADC	MAX SHOP	T CIRCUIT C	URRENT		15A
	HTED EFFICIENCY	99%	MAX POWER VOLTAGE: Vm					OPERATIN	G CURRENT			14.01A
MAX INPUT		13.5A 480V	SHORT CIRCUIT VOLTAGE: MAX POWER CURRENT: Im		MAX OUTPUT	CURRENT	15 ADC				I	
	<		Z UKE ENERGY 5^{1} , 1^{3} , 1^{4} , 1^{6} , 1^{7} 4^{6} , 1^{5} , 1^{6} (N)30A AC DISCONNECT	(N)SOLAREDGE T SE5000H-US(240 INVERTER					(N)LG NEON 2 355W MODULE PV MODULE	s s	N1K-B6, JLES WIRE	
		30A 2P PV BREAKER		AC DC		2	OX OR EQUI.	1				ED 15 MODULES
		30A 2P PV BREAKER PV BREAKER AT THE OPPOSITE END OF BUSBAR	EATON DG221URB PV SYSTEM AC DISCONNEC SWITCH NON FUSED VIS OPEN 30A, 120/240V, 21	T LOAD RATED DC SIBLE (RAPID SHUTDON	DISCONNECT & AFCI	NOTE:				SOLAREI OPTIMIZ	ERIES OF	15 MODULES
TAG ID	CONDUIT SIZE	BUSBAR DV BREAKER AT THE OPPOSITE END OF BUSBAR	EATON DG221URB PV SYSTEM AC DISCONNEC SWITCH NON FUSED VIS OPEN 30A, 120/240V, 21	LOAD RATED DC SIBLE (RAPID SHUTDON P	DISCONNECT & AFCI WN COMPLIANCE)	NOTE: MAIN PA			BREAKER RA	SOLAREH OPTIMIZ	ERIES OF DGE POWI ZERS	15 MODULES
TAG ID 1	NONE	JOA 2P PV BREAKER PV BREAKER AT THE OPPOSITE END OF BUSBAR CONDUCTOR (2) 10AWG PV WIRE	EATON DG221URB PV SYSTEM AC DISCONNEC SWITCH NON FUSED VIS OPEN 30A, 120/240V, 21 DUIT SCHEDULE NEUTRAL NONE	LOAD RATED DC DC DC DC DC DC DC DC DC DC	GROUND GROUND	NOTE: MAIN PA 120% RI	NEL RATING: JLE: (200AX1 ALCULATION	2)-200A=40	BREAKER RA	IN (1) SE SOLAREI OPTIMIZ	DGE POWI ZERS	15 MODULES ER 40A
1 2	NONE 3/4"EMT OR EQU	JOA 2P PV BREAKER PV BREAKER AT THE OPPOSITE END OF BUSBAR CONUCTOR (2) 10AWG PV WIRE IV (2) 10AWG THHN/THWN	EATON DG221URB PV SYSTEM AC DISCONNEC SWITCH NON FUSED VIS OPEN 30A, 120/240V, 21 DUIT SCHEDULE NEUTRAL NONE N-2 NONE	LOAD RATED DC LOAD RATED DC (RAPID SHUTDON (1) 10 A (1) 10 A	GROUND GROUND WG BARE COPPER WG THHN/THWN-2	NOTE: MAIN PA 120% RI OCPD C INVERTE	NEL RATING: JLE: (200AX1	2)-200A=40 I S: ENT PROTEC	BREAKER RA DA =>ALLOW TION= INVE	IN (1) SE SOLAREI OPTIMIZ	DGE POWI ZERS	15 MODULES ER 40A
1	NONE	JOA 2P PV BREAKER PV BREAKER AT THE OPPOSITE END OF BUSBAR CONUCTOR (2) 10AWG PV WIRE IV (2) 10AWG THHN/THWN	EATON DG221URB PV SYSTEM AC DISCONNEC SWITCH NON FUSED VIS OPEN 30A, 120/240V, 21 DUIT SCHEDULE NEUTRAL NONE N-2 NONE	LOAD RATED DC LOAD RATED DC (RAPID SHUTDON (1) 10 A (1) 10 A	GROUND GROUND	NOTE: MAIN PA 120% RI OCPD C INVERTE =21x1.2 ALLOWA	NEL RATING: JLE: (200AX1 ALCULATION R OVERCURR	2)-200A=4(S: ENT PROTEC V BREAKER D 40A =>3	BREAKER RA DA =>ALLOW TION= INVEI = 30A DA PV BREAK	VIN (1) SE SOLAREI OPTIMIZ	DGE POWI ZERS	15 MODULES ER 40A NUOUS LOAI
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1 2 3 DC WIRE S • REQUIRED PARALLEL 690.8(B)(• CORRECT	NONE 3/4"EMT OR EQU 3/4"EMT OR EQU SIZING CALCULA D CONDUCTOR A L STRINGS = (2)(a)=MAX CURRE FED AMPACITY C	JOA 2P PV BREAKER PV BREAKER AT THE OPPOSITE END OF BUSBAR CONDUCTOR (2) 10AWG PV WIRE IV (2) 10AWG THHN/THWN IV (2) 8 AWG THHN/THWN	EATON DG221URB PV SYSTEM AC DISCONNEC SWITCH NON FUSED VIS OPEN 30A, 120/240V, 21 DUIT SCHEDULE NEUTRAL NONE N-2 NONE N-2 (1) 8 AWG THHN/T GEQUATIONS>> A)(1) X ISC(A) X #OF (A)(1) X 125% PER TEMPERATURE DERATE	LOAD RATED DC LOAD RATED DC (RAPID SHUTDON (1) 10 A (1) 10 A	GROUND GROUND AWG BARE COPPER WG THHN/THWN-2 WG THHN/THWN-2 CAL CALCULAT DC WIRE REQUIRED CONDUCTOR A X 1 = 15	NOTE: MAIN PA 120% RU OCPD C INVERTE =21x1.2 ALLOWA THE DE	NEL RATING: JLE: (200AX1 ALCULATION R OVERCURR 5=26.25A=>I BLE BACKFEE SIGNED INTI	2)-200A=40 IS: ENT PROTEC V BREAKER 0 40A =>3 ERCONNEC IAL:COPPER CORRE	BREAKER RA DA =>ALLOW TION= INVEI = 30A DA PV BREAK IION MEETS & TEMPERAT CITED AMPACIT	VIN (1) SE SOLAREI OPTIMIZ TING: 200A ABLE BACKF RTER O/P I > ER THE 705.1 URE RATING	ERIES OF	15 MODULES ER 40A NUOUS LOAI) REQUIREI DERATED CONI 18.75A
1 2 3 DC WIRE S • REQUIRED PARALLEL 690.8(B)(• CORRECT FACTOR X • DERATED	NONE 3/4"EMT OR EQU 3/4"EMT OR EQU SIZING CALCULA D CONDUCTOR A L STRINGS = (2)(a)=MAX CURRE TED AMPACITY C X CONDUIT FILL DE CONDUCTOR AM	JOA 2P PV BREAKER PV BREAKER AT THE OPPOSITE END OF BUSBAR CONDUCTOR (2) 10AWG PV WIRE IV (2) 10AWG THHN/THWN VIV (2) 8 AWG THHN/THWN IV (2) 8 AWG THHN/THWN	EATON DG221URB PV SYSTEM AC DISCONNEC SWITCH NON FUSED VIS OPEN 30A, 120/240V, 21 DUIT SCHEDULE NEUTRAL NONE N-2 NONE N-2 (1) 8 AWG THHN/T GEQUATIONS>> A)(1) X Isc(A) X #OF (A)(1) X 125% PER TEMPERATURE DERATE AMPACITY	LOAD RATED DC LOAD RATED DC IC IC I	GROUND GROUND AWG BARE COPPER WG THHN/THWN-2 WG THHN/THWN-2 CAL CALCULAT DC WIRE REQUIRED CONDUCTOR /	NOTE: MAIN PA 120% RU OCPD C INVERTE =21x1.2 ALLOWA THE DE	NEL RATING: JLE: (200AX1 ALCULATION R OVERCURR 5=26.25A=>I BLE BACKFEE SIGNED INTI	2)-200A=40 IS: ENT PROTEC V BREAKER 0 40A =>3 ERCONNEC IAL:COPPER CORRE	BREAKER RA DA =>ALLOW TION= INVEI = 30A DA PV BREAK TION MEETS & TEMPERAT CITED AMPACIT	VIN (1) SE SOLAREI OPTIMIZ TING: 200A ABLE BACKF RTER O/P I > ER THE 705.1 URE RATING	ERIES OF	15 MODULES ER 40A NUOUS LOAI) REQUIRE
1 2 3 DC WIRE S • REQUIRE PARALLEL 690.8(B)(• CORRECT FACTOR X • DERATED DERATED	NONE 3/4"EMT OR EQU 3/4"EMT OR EQU SIZING CALCULA D CONDUCTOR A L STRINGS = (2)(a)=MAX CURRE (2)(a)=MAX CURRE TED AMPACITY C X CONDUIT FILL DE O CONDUCTOR AMPA CONDUCTOR AMPA	30A 2P PV BREAKER PV BREAKER AT THE OPPOSITE END OF BUSBAR CONDUCTOR (2) 10AWG PV WIRE IV (2) 10AWG THHN/THWN IV (2) 10AWG THHN/THWN IV (2) 8 AWG THHN/THWN	EATON DG221URB PV SYSTEM AC DISCONNEC SWITCH NON FUSED VIS OPEN 30A, 120/240V, 21 DUIT SCHEDULE NEUTRAL NONE N-2 NONE N-2 (1) 8 AWG THHN/T G EQUATIONS>> A)(1) X Isc(A) X #OF (A)(1) X 125% PER TEMPERATURE DERATE AMPACITY T PER 690.8(B)(2)(2) <	LOAD RATED DC LOAD RATED DC (RAPID SHUTDON (1) 10 A (1) 10 A	GROUND GROUND AWG BARE COPPER WG THHN/THWN-2 WG THHN/THWN-2 CAL CALCULAT DC WIRE REQUIRED CONDUCTOR A X 1 = 15	NOTE: MAIN PA 120% RU OCPD C INVERTE =21x1.2 ALLOWA THE DE	NEL RATING: JLE: (200AX1 ALCULATION R OVERCURR 5=26.25A=>I BLE BACKFEE SIGNED INTI	2)-200A=40 IS: ENT PROTEC V BREAKER 0 40A =>3 ERCONNEC IAL:COPPER CORRE	BREAKER RA DA =>ALLOW TION= INVEI = 30A DA PV BREAK IION MEETS & TEMPERAT CITED AMPACIT	VIN (1) SE SOLAREI OPTIMIZ TING: 200A ABLE BACKF RTER O/P I > ER THE 705.1 URE RATING	ERIES OF	15 MODULES ER 40A NUOUS LOAI) REQUIRE DERATED CON 18.75A
1 2 3 DC WIRE S • REQUIRED PARALLEL 690.8(B)(• CORRECTI FACTOR X • DERATED DERATED DERATED AC WIRE S	NONE 3/4"EMT OR EQU 3/4"EMT OR EQU 3/4"EMT OR EQU SIZING CALCULA D CONDUCTOR A L STRINGS = (2)(a)=MAX CURRE FED AMPACITY C X CONDUIT FILL DE O CONDUCTOR AMP/ SIZING CALCULA	JOA 2P PV BREAKER PV BREAKER AT THE OPPOSITE END OF BUSBAR CONDUCTOR (2) 10AWG PV WIRE IV (2) 10AWG THHN/THWN VIV (2) 8 AWG THHN/THWN IV (2) 8 AWG THHN/THWN	EATON DG221URB PV SYSTEM AC DISCONNEC SWITCH NON FUSED VIS OPEN 30A, 120/240V, 21 DUIT SCHEDULE NEUTRAL NONE N-2 NONE N-2 (1) 8 AWG THHN/T G EQUATIONS>> A)(1) X Isc(A) X #OF (A)(1) X 125% PER TEMPERATURE DERATE AMPACITY T PER 690.8(B)(2)(2) < G EQUATIONS >>	LOAD RATED DC LOAD RATED DC (RAPID SHUTDON (1) 10 A (1) 10 A	GROUND GROUND AWG BARE COPPER WG THHN/THWN-2 WG THHN/THWN-2 CAL CALCULAT DC WIRE REQUIRED CONDUCTOR / X 1 = 15 X 1 = 15	NOTE: MAIN PA 120% RI OCPD C INVERTE =21x1.2 ALLOWA THE DE CALCULATI AMPACITY X X X	NEL RATING: JLE: (200AX1 ALCULATION R OVERCURR 5=26.25A=>I BLE BACKFEE SIGNED INTI	2)-200A=40 IS: ENT PROTEC V BREAKER 0 40A =>3 ERCONNEC IAL:COPPER 40 × 40 × 40 ×	BREAKER RAT BREAKER RAT DA =>ALLOW TION= INVEI = 30A DA PV BREAK TION MEETS & TEMPERAT CTED AMPACIT	VIRE RATING URE RATING URE RATING 0.8 = 0.8 =	ERIES OF DGE POWE EEED IS CONTIL CONTIL CONTIL CON	15 MODULES ER 40A NUOUS LOA) REQUIRE DERATED CON 18.75A
1 2 3 DC WIRE S • REQUIREE PARALLEL 690.8(B)(• CORRECTI FACTOR X • DERATED DERATED DERATED DERATED NEQUIREE INVERTER	NONE 3/4"EMT OR EQU 3/4"EMT OR EQU 3/4"EMT OR EQU SIZING CALCULA D CONDUCTOR A L STRINGS = (2)(a)=MAX CURRE FED AMPACITY C X CONDUIT FILL DE D CONDUCTOR AMP/ SIZING CALCULA D CONDUCTOR RSXMAX CURRENT	JOA 2P PV BREAKER PV BREAKER AT THE OPPOSITE END OF BUSBAR CONUCTOR (2) 10AWG PV WIRE IV (2) 10AWG THHN/THWN IV (2) 8 AWG THHN/THWN BASED OF FOLLOWING INT PER 690.8(B)(2)(a) ALCULATIONS: AMPACITY INT PER 690.8(B)(2)(a) ALCULATIONS:	EATON DG221URB PV SYSTEM AC DISCONNEC SWITCH NON FUSED VIS OPEN 30A, 120/240V, 21 DUIT SCHEDULE NEUTRAL NONE N-2 NONE N-2 (1) 8 AWG THHN/T G EQUATIONS>> A)(1) X Isc(A) X #OF (A)(1) X 125% PER TEMPERATURE DERATE AMPACITY T PER 690.8(B)(2)(2) < G EQUATIONS >> UT CURRENT X #OF D.8(B)(2)(A)	LOAD RATED DC LOAD RATED DC I CRAPID SHUTDON (RAPID SHUTDON (1) 10 A (1) 10 A (1	GROUND GROUND AWG BARE COPPER WG THHN/THWN-2 WG THHN/THWN-2 CAL CALCULAT DC WIRE REQUIRED CONDUCTOR / X 1 = 15 X 1 = 15	NOTE: MAIN PA 120% RI OCPD C INVERTE =21x1.2 ALLOWA THE DE CALCULATI X 1 CALCULATI	NEL RATING: JLE: (200AX1 ALCULATION R OVERCURR 5=26.25A=>I BLE BACKFEE SIGNED INTI CONS:- MATER	2)-200A=40 IS: ENT PROTEC V BREAKER 0 40A =>3 ERCONNEC IAL:COPPER 40 × 40 × 40 × 1AL:COPPER	BREAKER RAT BREAKER RAT DA =>ALLOW TION= INVEI = 30A DA PV BREAK TION MEETS & TEMPERAT CTED AMPACIT	VRE RATING URE RATING URE RATING URE RATING URE RATING	ERIES OF DGE POWI ZERS EEED IS 4 X CONTIL L2(B)(2) G:90°C ON [22.72A 22.72A 3:90°C	15 MODULES ER 40A NUOUS LOAI) REQUIRE DERATED CON 18.75A

				ELECTRIC	AL NOTES		
RACTERISTICS GE:Vmp OLTAGE: Voc RENT	5325 W 380V 480V 15A 14.01A			SHALL BE LIST RESISTANT PER NEC 2.CONDUCTORS E LOCATIONS SHALL E IN WET LOCATIONS F 3.MAXIMUM DC/AC M BE NO MORE THAN 2 4.ALL CONDUCTORS UNLESS OTHERWISE 5.BREAKER/FUSE SI NEC 240.6 CODE SEC 6.AC GROUND CONDUCTOR SIZED F 7.AMBIENT TEMPER FACTOR IS BASED OI 8.AMBIENT TEMPER FACTOR IS BASED OI 9.MAX. SYSTEM VOL PER NEC 690.7.	310.10(D). XPOSED TO WET BE SUITABLE FOR USE PER NEC 310.10(C). /OLTAGE DROP SHALL %. SHALL BE IN CONDUIT NOTED. IZES CONFORMS TO TTION. ING ELECTRODE PER NEC 250.66. RATURE CORRECTION N NEC 690.31(C). RATURE ADJUSTMENT N NEC 310.15(B)(2). TAGE CORRECTION IS RE SIZED PER WIRE		
ACK LG355N1K-B6, 15 MODULES WI IN (1) SERIES O SOLAREDGE POY OPTIMIZERS	RED F 15 MODUL	ES		ADDRESS: 525W MESA AZ,85210	NFORMATION		
IG:200A LE BACKFEED IS	5 40A			ADDRESS:61 WATERVILLE WAY, FUQUAY VARINA, NC 27526 35.493147, -78.822011 APN: 080-654-010-09-031			
ER O/P I X CONT	INUOUS L	OAD(1.25))	AHJ:NC-COUNTY HAR			
HE 705.12(B)(REMENTS	1	UTILITY:DUKE ENERG	GY		
	_)			PRN NUMBER: TPS-24	4317		
E RATING:90°C							
CALCULATION DERATED CONDUCTOR AMPACITY CHECK			R AMPACITY CHECK	Decau	se quality matters		
0.8 = 22.72A 0.8 = 22.72A	18.75A 18.75A	<	22.72A 22.72A	SINGLE LIN	IE DIAGRAM		
E RATING:90°C				DESIGNER /CHECKED BY: DJ/SN	PAPER SIZE:17"X11"		
TION DE	RATED CON		IPACITY CHECK	SCALE:AS NOTED	REV:A		
7.85A 26.	25A	<	47.85A				
				DATE:4/19/2021	E-1		



		ELECTRIC	AL NOTES
		SHALL BE LISTE RESISTANT PER NEC 2.CONDUCTORS E LOCATIONS SHALL B IN WET LOCATIONS F 3.MAXIMUM DC/AC V BE NO MORE THAN 20 4.ALL CONDUCTORS UNLESS OTHERWISE 5.BREAKER/FUSE SI NEC 240.6 CODE SEC 6.AC GROUND CONDUCTOR SIZED F 7.AMBIENT TEMPER FACTOR IS BASED ON 8.AMBIENT TEMPER FACTOR IS BASED ON 9.MAX. SYSTEM VOL PER NEC 690.7.	310.10(D). XPOSED TO WET E SUITABLE FOR USE PER NEC 310.10(C). /OLTAGE DROP SHALL %. SHALL BE IN CONDUIT NOTED. IZES CONFORMS TO TTION. ING ELECTRODE PER NEC 250.66. ATURE CORRECTION NEC 690.31(C). ATURE ADJUSTMENT NEC 310.15(B)(2). TAGE CORRECTION IS RE SIZED PER WIRE
S6, WIRED OF 15 N	10DULES	ADDRESS: 525W MESA AZ,85210	
		NAME: DANIEL JOHNS	NFORMATION SON
POWER		ADDRESS:61 WATER VARINA, NC 27526	VILLE WAY, FUQUAY
		35.493147, -78.8220 APN: 080-654-010-0	9-031
DAD(1.2	25)	AHJ:NC-COUNTY HAR	
REMEN	TS.	PRN NUMBER: TPS-24	317
			Se quality matters
ONDUCTO < <	DR AMPACITY CHECK	THREE LIN	E DIAGRAM
		DESIGNER /CHECKED BY: DJ/SN	PAPER SIZE:17"X11"
	AMPACITY CHECK	SCALE:AS NOTED	REV:A
<	47.85A	DATE:4/19/2021	E-2

1 STRING OF 15 MODULES





ADDRESS: 525W, BASELINE RD MESA AZ,85210

CUSTOMER INFORMATION

NAME: DANIEL JOHNSON

ADDRESS:61 WATERVILLE WAY, FUQUAY VARINA, NC 27526

35.493147, -78.822011 APN: 080-654-010-09-031

AHJ:NC-COUNTY HARNETT

UTILITY: DUKE ENERGY

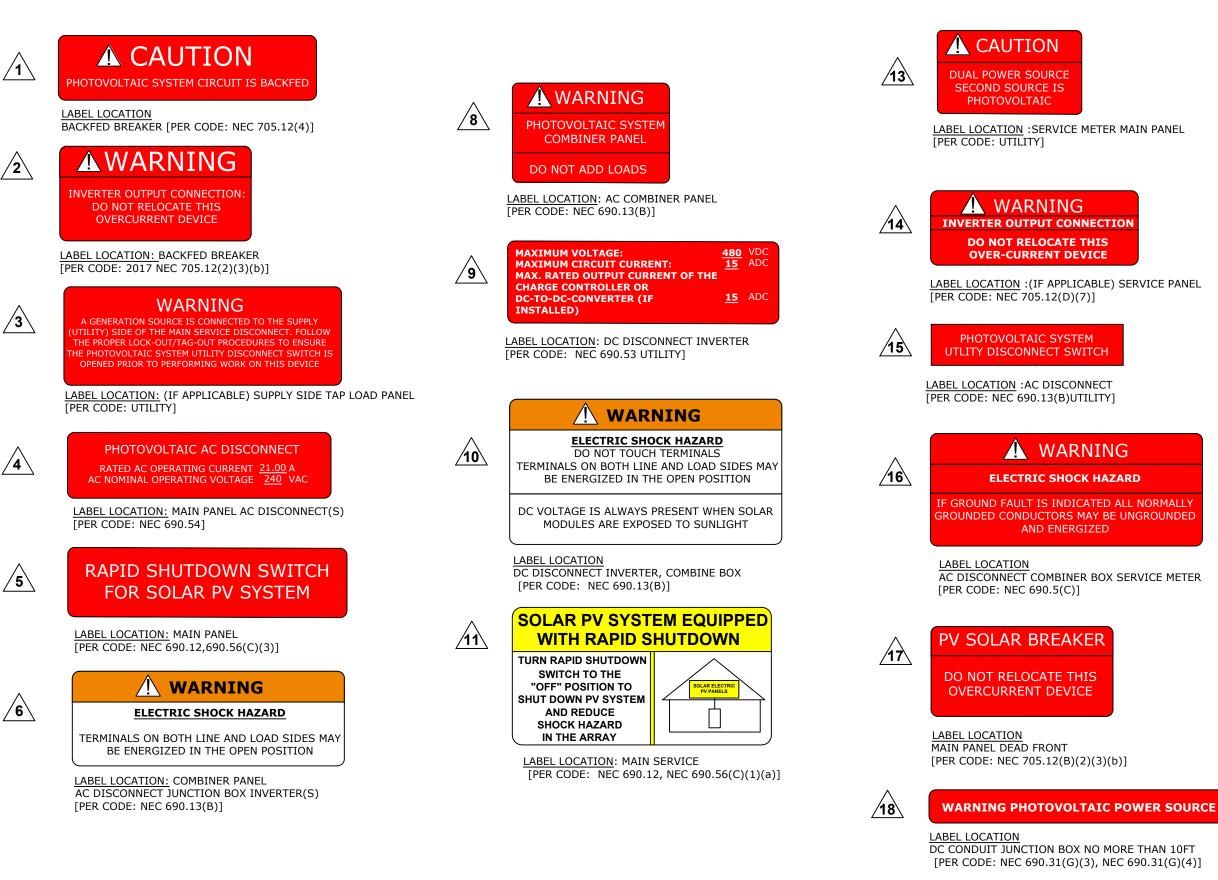
PRN NUMBER: TPS-24317



STRING WIRING DIAGRAM

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DATE:4/19/2021	E-3

WARNING PLACARD



REFLECTIVE AND WEATHER RESISTANCE LABEL REQUIRES CAPITALIZED LETTERS WITH A MINIMUM HEIGHT OF 3/8 INCH, WHITE LETTERS ON RED BACKGROUND LABELS SHALL BE PLACED ON INTERIOR AND EXTERIOR DC CONDUIT, RACEWAYS, ENCLOSURE, AND CABLE ASSEMBLIES EVERY 10 FEET, WITHIN 1 FOOT OF TURNS OR BENDS AND WITHIN 1 FOOT ABOVE AND BELOW PENETRATIONS OF ROOF/ CEILING ASSEMBLIES, WALLS OR BARRIERS.



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WARNING PLACARDS

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SAFETY PLANS

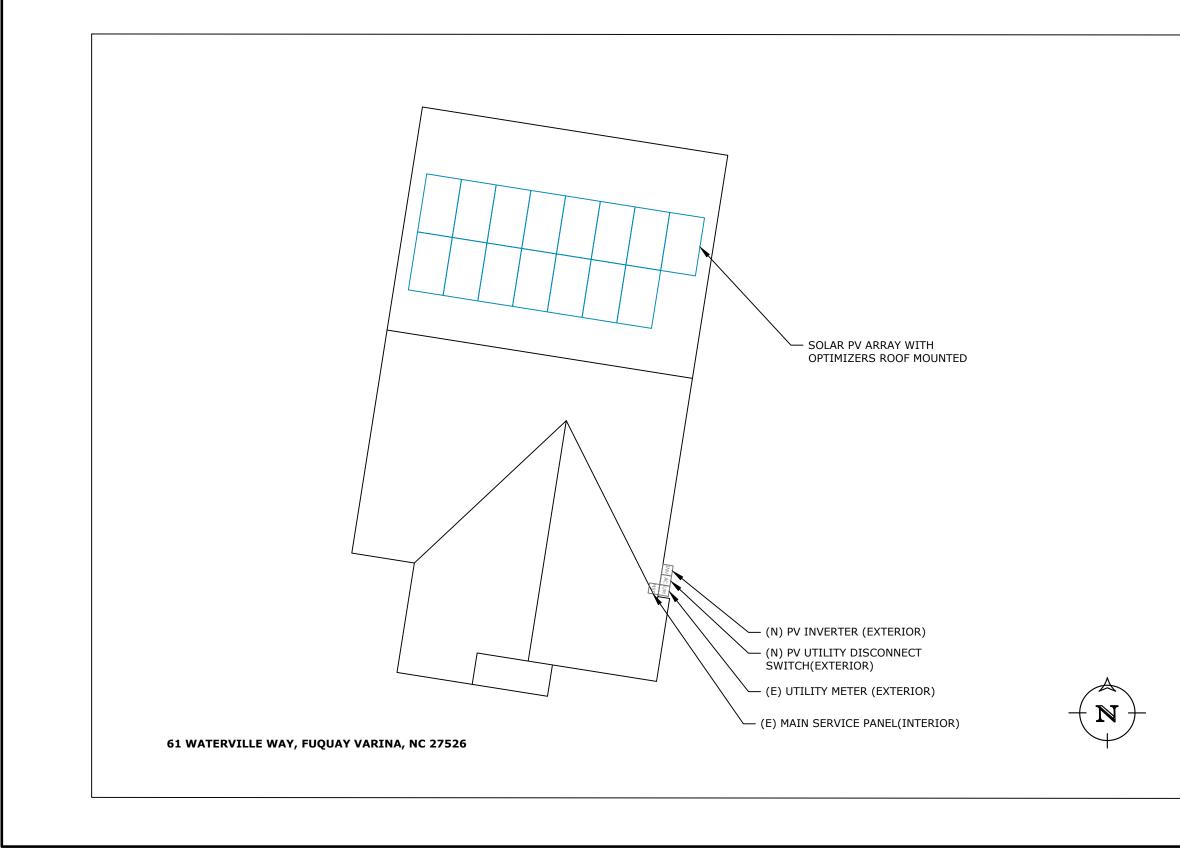
SAFETY PLANS

NOTES:

- INSTALLERS SHALL DRAW IN DESIGNATED SAFETY AREA AROUND HOME.
 INSTALLERS SHALL UPDATE NAME ADDRESS AND PHONE NUMBER OF NEAREST.
- 3. URGENT CARE FACILITY RELATIVE TO THE SITE BEFORE STARTING WORK.

LOCATION OF NEAREST URGENT CARE FACILITY

NAME: ADDRESS: PHONE NUMBER:





ADDRESS: 525W, BASELINE RD MESA AZ,85210

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SAFETY PLANS-1

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SAFETY PLANS

NOTES:

- 1. INSTALLERS SHALL DRAW IN DESIGNATED SAFETY AREA AROUND HOME.
- 2. INSTALLERS SHALL UPDATE NAME ADDRESS AND PHONE NUMBER OF NEAREST.
- 3. URGENT CARE FACILITY RELATIVE TO THE SITE BEFORE STARTING WORK.

LOCATION OF NEAREST URGENT CARE FACILITY

NAME: ADDRESS: PHONE NUMBER:

PERSONS COVERED BY THIS JOB SAFETY PLAN

INJURED AT WORK TODAY?

INITIAL YES OR NO

PRINT NAME	INITIAL	YES	NO

UNDERGROUND DIG REQUIRED?

YES _____ PERMIT #_____



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SAFETY PLANS-2

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LG NeON[®]2 Black

The LG NeON® 2 Black is one of the most powerful and versatile modules on the market today, combining LG's Cello technology and monocrystalline N-type solar cells with a stunning black design. The LG NeON® 2 Black includes a 25-year product and 90.1% performance warranty for higher performance and reliability.

LG355N1K-B6



90.1% in year 25

Enhanced Performance Warranty

LG NeON®2 Black comes with an enhanced performance warranty. After 25 years of use, the LG NeON®2 Black is guaranteed to provide at least 90.1% of initial performance.

Industry-Leading Product Warranty 25 LG offers an industry-leading 25 year product warranty on the NeON®2 Black.

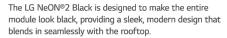


Reliable Quality

LG NeON®2 Black offers reliable and proven quality through rigorous testing.



Sleek Rooftop Design





About LG Electronics

LG is transforming today's solar landscape, offering high-efficiency solar panels for customers who demand high performance, reliability and consistently strong energy yield from a brand they can trust. LG's modules feature high power outputs, outstanding durability, appealing aesthetics and high-efficiency technology.

60cell



LG NeON[®]2 Black

LG355N1K-B6

General Data	
Cell Properties (Material / Type)	Monocrystalline / N-type
Cell Maker	LG
Cell Configuration	60 Cells (6 x 10)
Number of Busbars	12 EA
Module Dimensions (L x W x H)	1,740 x 1,042 x 40mm
Weight	18.6 kg
Glass (Material)	Tempered Glass with AR coating
Backsheet (Color)	Black
Frame (Material)	Anodized Aluminium
Junction Box (Protection Degree)	IP 68 with 3 Bypass Diodes
Cables (Length)	1,100 mm x 2 EA
Connector (Type / Maker)	MC4 / MC

Certifications and Warranty

	IEC 61215-1 / -1-1 / 2:2016, IEC 61730-1 / 2:2016, UL 61730-1:2017, UL 61730-2:2017		
Certifications	ISO 9001, ISO 14001, ISO 50001		
	OHSAS 18001		
Salt Mist Corrosion Test	IEC 61701 : 2011 Severity 6		
Ammonia Corrosion Test	IEC 62716 : 2013		
Module Fire Performance	Type 2 (UL 61730)		
Fire Rating	Class C (UL 790)		
Solar Module Product Warranty	25 Years		
Solar Module Output Warranty	Linear Warranty*		
1) First years : 98%. 2) After 1st year : -0.33%/year. 3) 90.1% for 25 years			

Temperature Characteristics

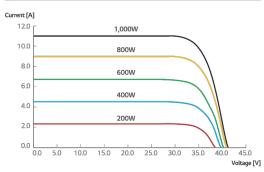
NMOT*	[°C]	42 ± 3
Pmax	[%/°C]	-0.35
Voc	[%/°C]	-0.26
lsc	[%/°C]	0.03

* NMOT (Nominal Module Operating Temperature) rradiance 800W/m², Ambient temperature 20°C, Wind speed 1m/s, Spectrum AM 1.5

Electrical Properties (NMOT)

	LG355N1K-B6			
[W]	266			
[V]	32.9			
[A]	8.10			
[V]	39.1			
[A]	8.61			
	[W] [V] [A] [V]			

I-V Curves





Model		LG355N1K-B6		
Maximum Power (Pmax)	[W]	355		
MPP Voltage (Vmpp)	[V]	35.0		
MPP Current (Impp)	[A]	10.15		
Open Circuit Voltage (Voc, ± 5%)	[V]	41.5		
Short Circuit Current (lsc, ± 5%)	[A]	10.72		
Module Efficiency	[%]	19.6		
Power Tolerance	[%]	0~+3		

: Irradiance 1,000 W/m², Cell temperature 25°C, AM 1.5, Measure tolerance of Pmax : ±3%

-40 ~ +85					
1,000					
20					
5,400					
Mechanical Test Load* (Rear) [Pa] 4,000					
Mechanical Test Load* (Rear) [Pa] 4,000 * Based on IEC 61215-2 : 2016 (Test Load = Design Load x Safety Factor(1.5)) % Mechanical Test Loads 6,000 Pa / 5,400 Pa based on IEC 61215 : 2005					

Packaging Configuration

	Number of Modules Per Pallet	[EA]	
ĺ	Number of Modules Per 40ft HQ Container	[EA]	
	Packaging Box Dimensions (L x W x H)	[mm]	1,7
	Packaging Box Gross Weight	[kg]	

Dimensions (mm/inch)

ŀ	1,042 / 41 (Size of Short Side)
	1,002 / 39,4 (Distance between Grounding & Mounting Holes)
	175 / 6.9
16 - 8 x 3 / 0.3 x 0.1 Drain Holes	
8 - Ø4.3 / 0.2	(-) (+)
Grounding Holes	Junction Box
8-85x12/0.3x0.5	• •
Mounting Holes	
	1,100 / 43.3 🗡
	Cable Length
	• •
320/12.6 20/8.6 5/4.1	•
320 / 1: 20 / 8.6	-
	<u> </u>

LG Electronics Inc. G Life's Good www.lg-solar.com

Energy Business Division LG Twin Towers, 128 Yeoui-daero, Yeongdeungpo-gu, Seoul 07336, Korea

Product specifications are subject to change without notice. © 2021 LG Electronics. All rights reserved

Preliminary

25
650
90 x 1,120 x 1,213
500







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MODULE SPEC SHEET

DESIGNER /CHECKED BY: DJ/SN	PAPER SIZE:17"X11"		
SCALE:AS NOTED	REV:A		
DATE:4/19/2021	SS-1		

NVERTERS

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

- 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 and 2017, per article 690.11 and 690.12

solaredge.com

- / Specifically designed to work with power optimizers / UL1741 SA certified, for CPUC Rule 21 grid compliance
 - Small, lightweight, and easy to install both outdoors
 - or indoors Built-in module-level monitoring
 - I Optional: Faster installations with built-in consumption metering (1% accuracy) and production revenue grade metering (0.5% accuracy, ANSI C12.20)



/ Single Phase Inverter

with HD-Wave Technology for North America

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

MODEL NUMBER	SE3000H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE1000	
APPLICABLE TO INVERTERS WITH PART NUMBER	SEXXXXH-XXXXBXX4						
OUTPUT							
Rated AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	1000	
Maximum AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	1000	
AC Output Voltage MinNomMax. (211 - 240 - 264)	✓	~	~	~	~	1	
AC Output Voltage MinNomMax. (183 - 208 - 229)	-	~	-	~	-	-	
AC Frequency (Nominal)				59.3 - 60 - 60.5			
Maximum Continuous Output Current @240V	12.5	16	21	25	32	42	
Maximum Continuous Output Current @208V	-	16	-	24	-	-	
Power Factor	1, Adjustable - 0.85 to 0.85						
GFDI Threshold	1						
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes						
INPUT							
Maximum DC Power @240V	4650	5900	7750	9300	11800	1550	
Maximum DC Power @208V	-	5100	-	7750	-	-	
Transformer-less, Ungrounded	Yes						
Maximum Input Voltage				480			
Nominal DC Input Voltage		3	80			40	
Maximum Input Current @240V ⁽²⁾	8.5	10.5	13.5	16.5	20	27	
Maximum Input Current @208V ⁽²⁾	-	9	-	13.5	-	-	
Max. Input Short Circuit Current	45						
Reverse-Polarity Protection	Yes						
Ground-Fault Isolation Detection	600kΩ Sensitivity						
Maximum Inverter Efficiency	99 99.2						
CEC Weighted Efficiency	99						
Nighttime Power Consumption	< 2.5						

Por other regional settings please contact SolarEdge support
 A higher current source may be used; the inverter will limit its input current to the values stated

0H-US	SE11400H-US	
00	11400 @ 240V 10000 @ 208V	VA
00	11400 @ 240V 10000 @ 208V	VA
	✓	Vac
	~	Vac
		Hz
2	47.5	A
	48.5	А
		A
00	17650	W
	15500	W
		Vdc
0	1	Vdc
7	30.5	Adc
	27	Adc
		Adc
		%
	99 @ 240V 98.5 @ 208V	%
		W



/ Single Phase Inverter with HD-Wave Technology for North America

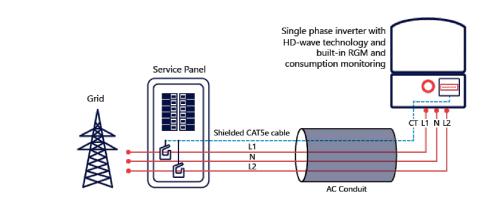
SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US/ SE7600H-US / SE10000H-US / SE11400H-US

MODEL NUMBER	SE3000H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	
ADDITIONAL FEATURES								
Supported Communication Interfaces		RS485, Ethernet, ZigBee (optional), Cellular (optional)						
Revenue Grade Metering, ANSI C12.20				Optional ⁽³⁾				
Consumption metering								
Inverter Commissioning		With the Set	App mobile applicati	on using Built-in Wi-l	i Access Point for Lo	ocal Connection		
Rapid Shutdown - NEC 2014 and 2017 690.12			Automatic Rap	d Shutdown upon A	C Grid Disconnect			
STANDARD COMPLIANCE								
Safety		UL1741, UL1741 SA, UL1699B, CSA C22.2, Canadian AFCI according to T.I.L. M-07						
Grid Connection Standards		IEEE1547, Rule 21, Rule 14 (HI)						
Emissions	FCC Part 15 Class B							
INSTALLATION SPECIFICA	TIONS							
AC Output Conduit Size / AWG Range		1" Maximum / 14-6 AWG 1" Maximum /14-4 AWG			n /14-4 AWG			
DC Input Conduit Size / # of Strings / AWG Range		1" Maximum / 1-2 strings / 14-6 AWG 1" Maximum / 1-3 strings / 14-6 AWG						
Dimensions with Safety Switch (HxWxD)		17.7 x 14.6 x 6.8 / 450 x 370 x 174 21.3 x 14.6 x 7.3 / 540 x 370 x 185				/ 540 x 370 x 185	in / mm	
Weight with Safety Switch	22	/ 10	25.1 / 11.4	26.2	/ 11.9	38.8	/ 17.6	lb / k
Noise	< 25 <50					dBA		
Cooling				Natural Convection	1			
Operating Temperature Range		-40 to +140 / -40 to +60%				°F/°		
Protection Rating	NEMA 4X (Inverter with Safety Switch)							

Inverter with Revenue Grade Meter P/N: SExxxxH-US000BNC4; Inverter with Revenue Grade Production and Consumption Meter P/N: SExxxH-US000BNI4. For consumption metering, current transformers should be ordered separately: SEACT0750-200NA-20 or SEACT0750-400NA-20. 20 units per box
 Full power up to at least 50°C / 122°F; for power de-rating information refer to: https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf

How to Enable Consumption Monitoring

By simply wiring current transformers through the inverter's existing AC conduits and connecting them to the service panel, homeowners will gain full insight into their household energy usage helping them to avoid high electricity bills



Intertek

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UTILITY: DUKE ENERGY

PRN NUMBER: TPS-24317



INVERTER SPEC SHEET

DESIGNER /CHECKED BY: DJ/SN	PAPER SIZE:17"X11"		
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Power Optimizer

For North America P370 / P400 / P401 / P485 / P505



PV power optimization at the module-level

- Specifically designed to work with SolarEdge inverters
- / Up to 25% more energy
- Superior efficiency (99.5%)
- / Mitigates all types of module mismatch losses, from manufacturing tolerance to partial shading
- Flexible system design for maximum space utilization

- Fast installation with a single bolt
- I Next generation maintenance with modulelevel monitoring
- Meets NEC requirements for arc fault protection (AFCI) and Photovoltaic Rapid Shutdown System (PVRSS)
- Module-level voltage shutdown for installer and firefighter safety

/ Power Optimizer For North America

P370 / P400 / P401 / P485 / P505

Optimizer model (typical module compatibility)	P370 (for higher-power 60 and 72-cell modules)	P400 (for 72 & 96- cell modules)	P401 (for high power 60 and 72 cell modules)	P485 (for high-voltage modules)	c
INPUT					
Rated Input DC Power ⁽¹⁾	370		400	485	
Absolute Maximum Input Voltage (Voc at lowest temperature)	60	80	60	125 ⁽²⁾	
MPPT Operating Range	8 - 60	8 - 80	8-60	12.5 - 105	
Maximum Short Circuit Current (Isc)	11	10.1	11.75	11	
Maximum Efficiency		1	99.5		_
Weighted Efficiency	98.8			_	
Overvoltage Category				_	
OUTPUT DURING OPERATIO	N (POWER OPTIMIZE	R CONNECTED	D TO OPERATING SO	LAREDGE INVERT	EF
Maximum Output Current			15		
Maximum Output Voltage		60		8	35
OUTPUT DURING STANDBY (F	OWER OPTIMIZER DI	SCONNECTED	FROM SOLAREDGE IN	VERTER OR SOLA	R
Safety Output Voltage per Power Optimizer			1 ± 0.1		
STANDARD COMPLIANCE					
Photovoltaic Rapid Shutdown System	1	NEC 2014, 2017 & 202	20	NEC 2014, 2017 & 2020	
EMC		FCC Part	15 Class B, IEC61000-6-2, IEC6	1000-6-3	-
Safety		IE	C62109-1 (class II safety), UL17	41	_
Material			UL94 V-0 , UV Resistant		_
RoHS	Yes				
INSTALLATION SPECIFICATIO) NS				
Maximum Allowed System Voltage			1000		_
Compatible inverters		All SolarEdo	ge Single Phase and Three Pha	ise inverters	
Dimensions (W x L x H)	129 x 153 x 27.5 / 5.1 x 6 x 1.1	129 x 153 x 33.5 / 5.1 x 6 x 1.3	129 x 153 x 29.5 /5.1 x 6 x 1.16	129 x 153 x 33.5 / 5.1 x 6 x 1.3	
Weight (including cables)	655 / 1.4	750 / 1.7	655 / 1.4	845 / 1.9	
Input Connector		MC4 ⁽³⁾		Single or dual MC4(3)(4)	
Input Wire Length	0.16 / 0.52, 0.9 / 2.954	0.16 / 0.52	0.16 / 0.52, 0.9 / 2.95(4)	0.16 / 0.52	
Output Wire Type / Connector	Double Insulated / MC4				
Output Wire Length	1.2 / 3.9			_	
Operating Temperature Range ⁽⁵⁾	-40 to +85 / -40 to +185			_	
Protection Rating	IP68 / NEMA6P			_	
Relative Humidity	0 - 100			_	

(2) NEC 2017 requires max input voltage be not more than 80V (3) For other connector types please contact SolarEdge

(4) For dual version for parallel connection of two modules use P485-4NMDMRM. In the case of an odd number of PV modules in one string, installing one P485 dual version power optimizer connected to one PV module. When connecting a single module seal the unused input connectors with the supplied pair of seals

(5) For ambient temperature above +85°C / +185°F power de-rating is applied. Refer to Power Optimizers Temperature De-Rating Technical Note for more details

PV System Design Usi Inverter ⁽⁶⁾⁽⁷⁾	ng a SolarEdge	Single Phase HD-Wave	Single phase	Three Phase for 208V grid	Three Phase for 277/480V grid	
Minimum String Length	P370, P400, P401	8		10	18	
(Power Optimizers)	P485, P505	6		8	14	
Maximum String Length (Powe	r Optimizers)	25	5	25	50	
Maximum Nominal Power per	String	5700 ⁽⁸⁾ (6000 with SE7600-US - SE11400-US)	5250 ⁽⁸⁾	6000 ⁽⁹⁾	12750(10)	W
Devellel Christen of Different Law	-the second state the second			1		

Parallel Strings of Different Lengths or Orientations

(6) For detailed string sizing information refer to: http://www.solaredge.com/sites/default/files/string_sizing_na.pdf

 (7) It is not allowed to mix P485/P505 with P370/P400/P401 in one string
 (8) If the inverters rated AC power ≤ maximum nominal power per string, then the maximum power per string will be able to reach up to the inverters maximum input DC power. Refer to: https://www.solaredge. com/sites/default/files/se-power-optimizer-single-string-design-application-note.pdf
 (9) For 208V grid: it is allowed to install up to 7,200W per string when the maximum power difference between each string is 1,000W
 (10) For 277/480V grid: it is allowed to install up to 15,000W per string when the maximum power difference between each string is 2,000W



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POWER

 \bigcirc

PTIMIZ

solaredge.com

P505	
(for higher	
urrent modules)	
505	W
83(2)	Vdc
12.5 - 83	Vdc
14	Adc
	%
	%
र)	
	Adc
	Vdc
EDGE INVERTER	OFF)
	Vdc
NEC 2014, 2017 & 2020	
	Vdc
129 x 162 x 59 / 5.1 x 6.4 x 2.3	mm
1064 / 2.3	/in gr/lb
MC4 ⁽³⁾	yi / ib
0.16 / 0.52	m / ft
0.107 0.52	in / it
	m/ft
	°C / °F
	%







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OPTIMIZER SPEC SHEET

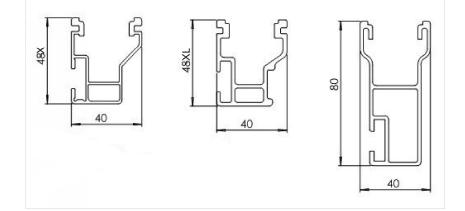
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DATE:4/19/2021	SS-4

SPEC SHEET



	_	
BOX QTY 3" Microflashing® (10) 4" Microflashing® (40)		
Microflashing® in the industry riginal Microflashing® design bottom, Stainless Steel on top sses to composite shingle roof Leak-proof seal UL Certified		
BOX QTY SS L-Foot (10)		
SS L-Foot (10) Stainless Steel		
bility when connecting T-Bolts	ADDRESS: 525W	, BASELINE RD
	MESA AZ,85210	
<u> </u>		NFORMATION
BOX QTYSCREW SIZE10 ClampsN/A		
	CUSTOMER II	SON
10 Clamps N/A For running conduit any QuickBOLT Mounting Kit	CUSTOMER II NAME:DANIEL JOHNS ADDRESS:61 WATER VARINA, NC 27526 35.493147, -78.8220	SON VILLE WAY, FUQUAY
10 Clamps N/A For running conduit any QuickBOLT Mounting Kit	CUSTOMER II NAME:DANIEL JOHNS ADDRESS:61 WATER VARINA, NC 27526	SON VILLE WAY, FUQUAY 111 9-031
10 Clamps N/A For running conduit any QuickBOLT Mounting Kit pility in bundling cables/wires	CUSTOMER II NAME:DANIEL JOHNS ADDRESS:61 WATER VARINA, NC 27526 35.493147, -78.8220 APN: 080-654-010-0	SON VILLE WAY, FUQUAY 911 9-031 NETT
10 Clamps N/A For running conduit any QuickBOLT Mounting Kit pility in bundling cables/wires BOX QTY SCREW SIZE	CUSTOMER II NAME:DANIEL JOHNS ADDRESS:61 WATER VARINA, NC 27526 35.493147, -78.8220 APN: 080-654-010-0 AHJ:NC-COUNTY HAR	SON VILLE WAY, FUQUAY 9-031 NETT SY
10 Clamps N/A For running conduit any QuickBOLT Mounting Kit obligation of the second seco	CUSTOMER II NAME:DANIEL JOHNS ADDRESS:61 WATER VARINA, NC 27526 35.493147, -78.8220 APN: 080-654-010-0 AHJ:NC-COUNTY HAR UTILITY:DUKE ENERG PRN NUMBER: TPS-24	SON VILLE WAY, FUQUAY 9-031 NETT SY
10 Clamps N/A For running conduit any QuickBOLT Mounting Kit pility in bundling cables/wires BOX QTY SCREW SIZE	CUSTOMER II NAME:DANIEL JOHNS ADDRESS:61 WATER VARINA, NC 27526 35.493147, -78.8220 APN: 080-654-010-0 AHJ:NC-COUNTY HAR UTILITY:DUKE ENERG PRN NUMBER: TPS-24	SON VILLE WAY, FUQUAY 9-031 NETT SY 4317 VMINE I
10 Clamps N/A For running conduit any QuickBOLT Mounting Kit oility in bundling cables/wires BOX QTY SCREW SIZE Plashing + L-Foot 5/16" x 4" s Steel L-Foot mounting system	CUSTOMER II NAME:DANIEL JOHNS ADDRESS:61 WATER VARINA, NC 27526 35.493147, -78.8220 APN: 080-654-010-0 AHJ:NC-COUNTY HAR UTILITY:DUKE ENERG PRN NUMBER: TPS-24	SON VILLE WAY, FUQUAY STATEMENT ST
10 Clamps N/A For running conduit any QuickBOLT Mounting Kit any QuickBOLT Mounting Kit pility in bundling cables/wires BOX QTY SCREW SIZE Flashing + L-Foot 5/16" x 4" s Steel L-Foot mounting system ronger than Aluminim Flashing	CUSTOMER II NAME:DANIEL JOHNS ADDRESS:61 WATER VARINA, NC 27526 35.493147, -78.8220 APN: 080-654-010-0 AHJ:NC-COUNTY HAR UTILITY:DUKE ENERG PRN NUMBER: TPS-24 WOUNT SP DESIGNER /CHECKED	SON VILLE WAY, FUQUAY 111 9-031 INETT SY 4317 Se quality matters PEC SHEET

SPEC SHEET



Technical data

	CrossRail System
Roof Type	Composition shingle, tile, standing seam
Material	High corrosion resistance stainless steel and high grade aluminum
Flexibility	Modular construction, suitable for any system size, height adjustable
PV Modules	For all common module types
Module Orientation	Portrait and landscape
Roof Attachment	Screw connection into rafter
Structural Validity	IBC compliant, stamped engineering letters available for all solar states
Warranty	25 years

CrossRail 48-X

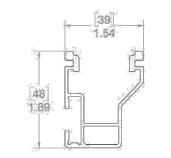


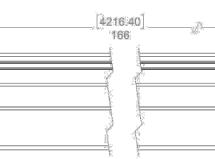
Mechanical Properties

	CrossRail 48-X
Material	6000 Series Aluminum
Ultimate Tensile Strength	37.7 ksi (260 MPa)
Yield Strength	34.8 ksi (240 MPa)
Weight	0.56 lbs/ft (0.833 kg/m)
Finish	Mill or Dark Anodized

Section Properties

	CrossRail 48-X
Sx	0.1980 in ³ (3.261 cm ³)
Sy	0.1510 in ³ (2.507 cm ³)
A (X-Section)	0.4650 in ² (3.013 cm ²)





Dimensions in [mm] Inches

Notes:

- Structural values and span charts determined in accordance with Aluminum Design Manual and ASCE 7-10
- UL2703 Listed System for Fire and Bonding

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