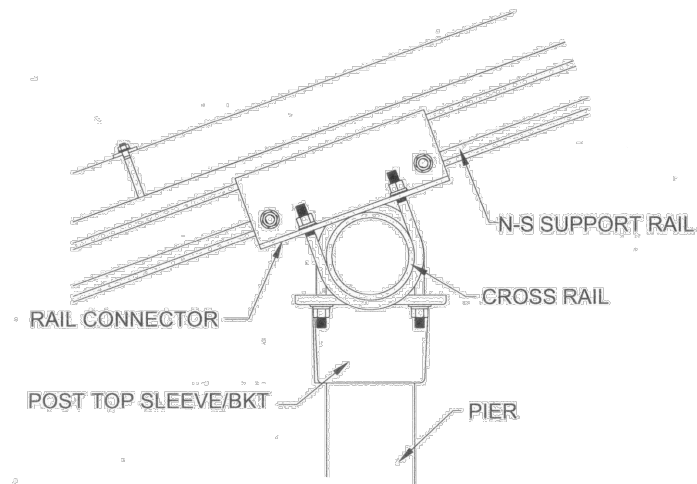
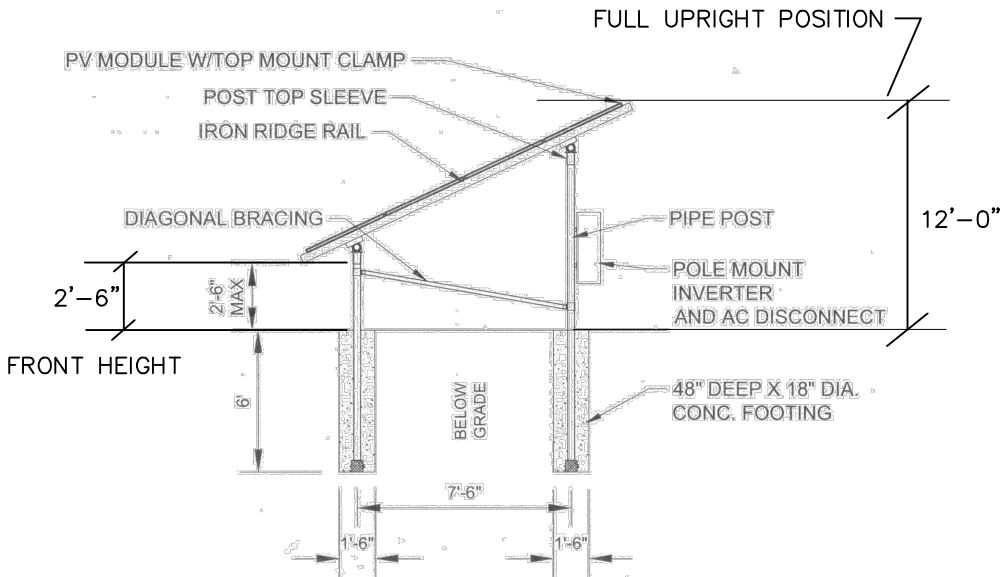


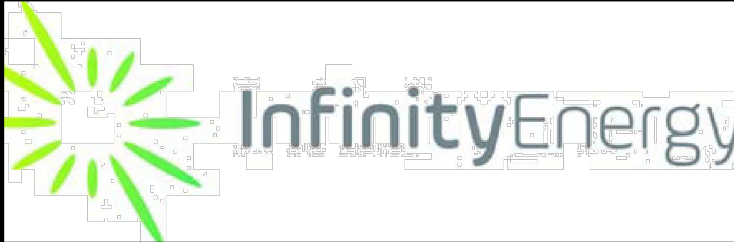
GROUND MOUNT LAYOUT:
NTS



SOLAR PANEL ATTACHMENT:



SOLAR PANEL ASSEMBLY:



**SOLAR PANEL
INSTALLATION
ALZAMORE
RESIDENCE**


26 NEIL DRIVE
CHESTER
NEW YORK, 10918

REVISIONS NOTES	
DWG. BY: MEM	SCALE: AS-NOTED
CHECKED BY: MEM	PROJECT #: GM-0005
DATE: DECEMBER 1, 2020	
MUNICIPALITY: TOWN OF CHESTER	COUNTY: ORANGE

SYSTEM NOTES:
TOTAL SYSTEM SIZE: 12.96kW DC SYSTEM
PANEL TYPE: LG360-Q1C-A5
OF PANELS: 36
INVERTER TYPE: IQ7PLUS-72-2-US
OF INVERTERS: 36
ARRAY #1
AZIMUTH: 180
TILT: 30

PROFESSIONAL NOTES:
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SEAL & SIGNATURE



DWG#
S-2
**SOLAR
PANEL
LAYOUT
PLAN**
DWG. **2 OF 4**

LG N_eON[®] R

LG365Q1C-A5 | LG360Q1C-A5 | LG355Q1C-A5 | LG350Q1C-A5

Mechanical Properties

Cells	6 x 10
Cell Vendor	LG
Cell Type	Monocrystalline / N-type
Cell Dimensions	161.7 x 161.7 mm / 6 inches
Dimensions (L x W x H)	1,700 x 1,016 x 40 mm 66.93 x 40.0 x 1.57 in
Front Load	6,000Pa / 125 psf
Rear Load	5,400Pa / 113 psf
Weight	18.5 kg / 40.79 lb
Connector Type	MC4 (MC)
Junction Box	IP68 with 3 Bypass Diodes
Cables	1,000 mm x 2 ea / 39.37 in x 2 ea
Glass	High Transmission Tempered Glass
Frame	Anodized Aluminium

Certifications and Warranty

Certifications	IEC 61215, IEC 61730-1/-2 UL 1703 IEC 61701 (Salt mist corrosion test) IEC 62716 (Ammonia corrosion test) ISO 9001
Module Fire Performance	Type 1 (UL)
Fire Rating	Class C
Product Warranty	25 years
Output Warranty of Pmax	Linear Warranty*

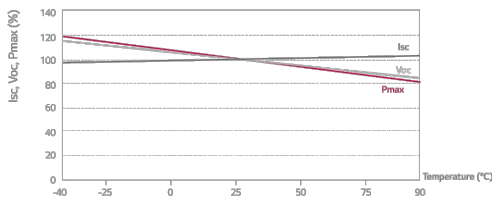
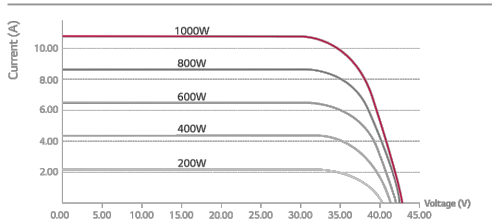
* 1) First 5 years : 95%, 2) After 5th year : 0.4%p annual degradation, 3) 25 years : 87.0%

Temperature Characteristics

NOCT*	[°C]	44 ± 3
Pmax	[%/°C]	-0.30
Voc	[%/°C]	-0.24
Isc	[%/°C]	0.04

* NOCT (Nominal Operating Cell Temperature): Irradiance 800 W/m², ambient temperature 20 °C, wind speed 1 m/s

Characteristic Curves



LG Electronics Inc.
Solar Business Division
LG Twin Towers, 128 Yeou-daero, Yeongdeungpo-gu, Seoul
07336, Korea
www.lg-solar.com

Electrical Properties (STC*)

Model		LG365Q1C-A5	LG360Q1C-A5	LG355Q1C-A5	LG350Q1C-A5
Maximum Power (Pmax)	[W]	365	360	355	350
MPP Voltage (Vmpp)	[V]	36.7	36.5	36.3	36.1
MPP Current (Impp)	[A]	9.95	9.87	9.79	9.70
Open Circuit Voltage (Voc)	[V]	42.8	42.7	42.7	42.7
Short Circuit Current (Isc)	[A]	10.80	10.79	10.78	10.77
Module Efficiency	[%]	21.1	20.8	20.6	20.3
Operating Temperature	[°C]	-40 ~ +90			
Maximum System Voltage	[V]	1,000 (UL / IEC)			
Maximum Series Fuse Rating	[A]	20			
Power Tolerance	[%]	0 ~ +3			

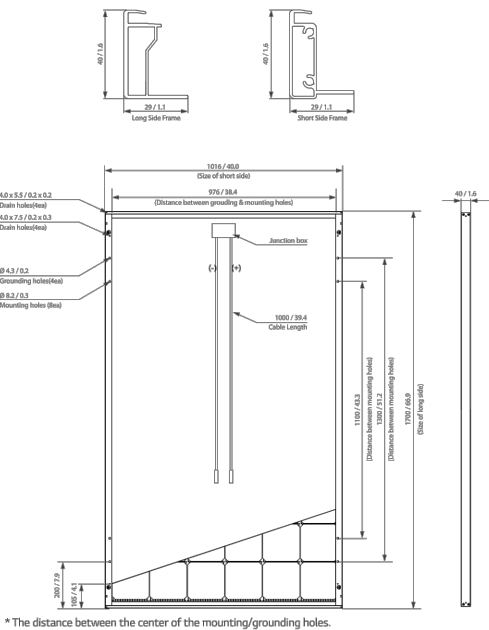
* STC (Standard Test Condition): Irradiance 1000 W/m², Module Temperature 25 °C, AM 1.5

* The nameplate power output is measured and determined by LG Electronics at its sole and absolute discretion.

Electrical Properties (NOCT)

Model		LG365Q1C-A5	LG360Q1C-A5	LG355Q1C-A5	LG350Q1C-A5
Maximum Power (Pmax)	[W]	275	271	267	263
MPP Voltage (Vmpp)	[V]	36.6	36.4	36.2	36.0
MPP Current (Impp)	[A]	7.51	7.45	7.39	7.32
Open Circuit Voltage (Voc)	[V]	40.2	40.2	40.2	40.1
Short Circuit Current (Isc)	[A]	8.70	8.69	8.68	8.67

Dimensions (mm / inch)



* The distance between the center of the mounting/grounding holes.



Product specifications are subject to change without notice.
DS-Q1-60-C-G-F-EN-70307

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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
Maximum continuous output current	1.0 A (240 V)	1.21 A (240 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)
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
Peak efficiency	97.6 %	97.6 %
CEC weighted efficiency	97.0 %	97.0 %

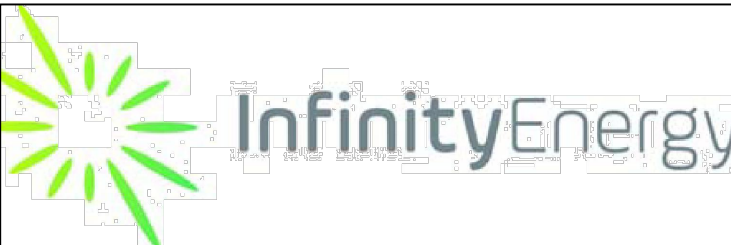
MECHANICAL DATA	
Ambient temperature range	-40°C to +65°C
Relative humidity range	4% to 100% (condensing)
Connector type (IQ7-60-2-US & IQ7PLUS-72-2-US)	MC4 (or Amphenol H4 UTX with additional Q-DCC-5 adapter)
Dimensions (WxHxD)	212 mm x 175 mm x 30.2 mm (without bracket)
Weight	1.08 kg (2.38 lbs)
Cooling	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



SOLAR PANEL
INSTALLATION
ALZAMORE
RESIDENCE

26 NEAL DRIVE
CHESTER
NEW YORK, 10918

REVISIONS NOTES

DWG. BY:	MEM	SCALE:	AS-NOTED
CHECKED BY:	MEM	PROJECT #:	GM-0005
DATE:	DECEMBER 1, 2020		
MUNICIPALITY:	TOWN OF CHESTER		COUNTY: ORANGE

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OF INVERTERS: 36

ARRAY #1
AZIMUTH: 180
TILT: 30

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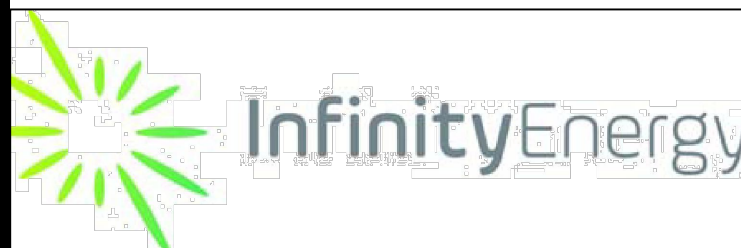
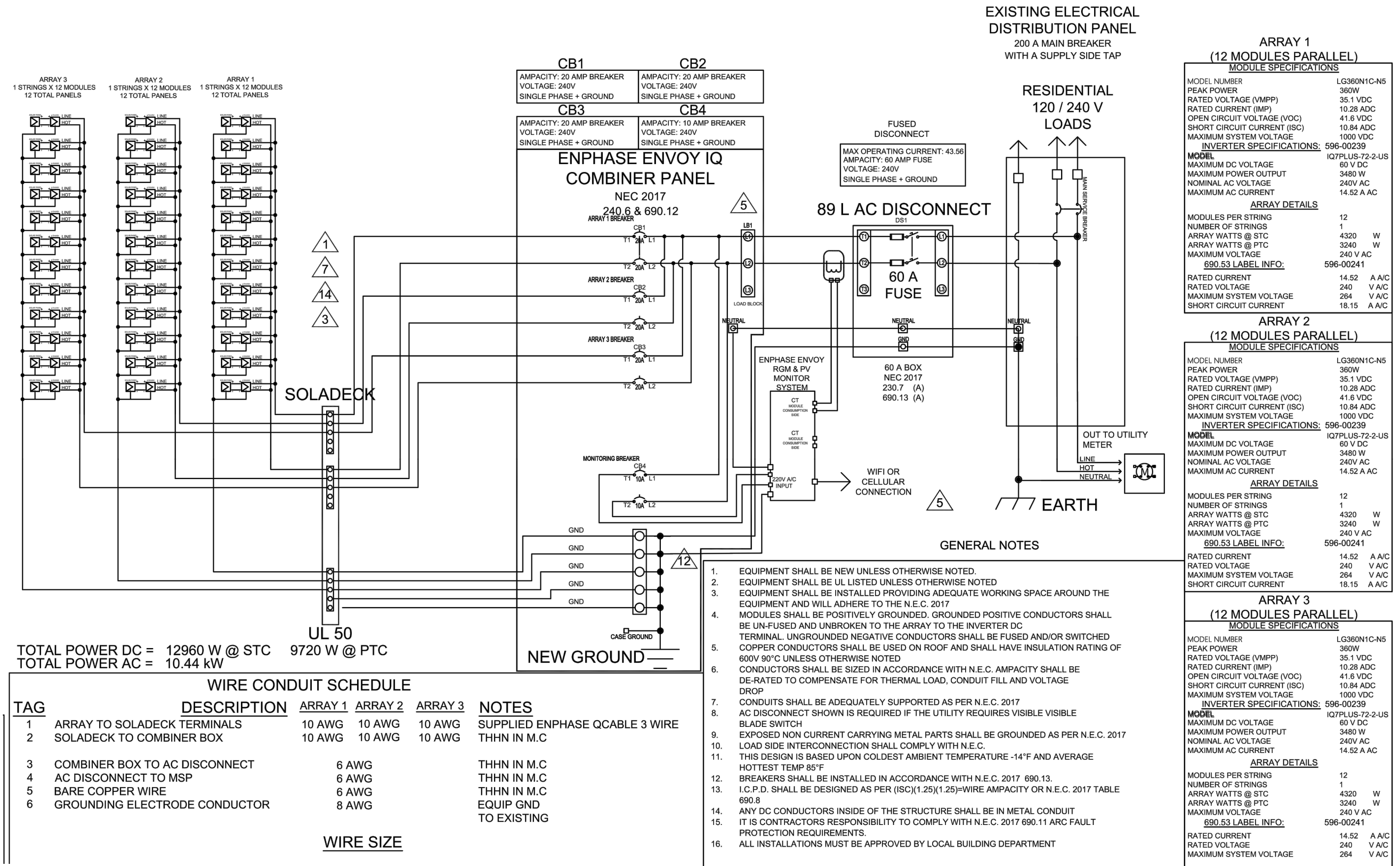
DWG#

S-3

SOLAR
PANEL &
INVERTER
SPECIFICATIONS

DWG.

3 OF 4



SOLAR PANEL INSTALLATION ALZAMORA RESIDENCE

26 NEAL DRIVE
CHESTER
NEW YORK, 10918

REVISIONS NOTES

DWG. BY: MEM		SCALE: AS-NOTED	
CHECKED BY: MEM		PROJECT #: GM-0005	
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S-4

SOLAR
3-LINE
DIAGRAM

DWG.

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