



NOTES:

1. THIS DRAWING IS FOR ILLUSTRATIVE PURPOSES ONLY!
2. ALL TESTING SHALL BE PERFORMED BY QUALIFIED PERSONNEL, WITH PROPER PERSONAL PROTECTIVE EQUIPMENT
3. THE PRODUCTION METER AND AC DISCONNECT SHOULD BE LOCATED TOGETHER IN A READILY ACCESSIBLE LOCATION WITHIN 10' OF THE MAIN SERVICE METER
4. 24/7 UNESCORTED KEYLESS ACCESS SHALL BE PROVIDED FOR THE METERS AND AC DISCONNECT
5. UTILITY AC DISCONNECT SHOULD BE LOCATED WITHIN 10 FEET OF THE MAIN SERVICE METER
6. NOTE ALL THE APPLICABLE NEC CODES
7. SHOW ALL THE SYSTEMS INCLUDING STORAGE, EXISTING AND NEW (IF APPLICABLE)

PV SYSTEM:

ROOF SLOPE: 20°

AZIMUTH: 180°

PV MODULES: 320W

TOTAL: 14

MODULES PER STRING: 14

RACK CONFIGURATION:

INVERTER INFORMATION:

3.8 KW UL CERTIFIED INTVERTER, (1)

DC/AC RATIO: 1.179

ABBREVIATIONS:

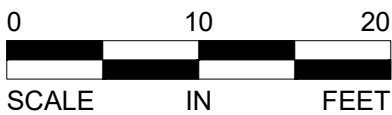
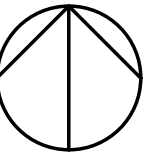
1. FOH: FRONT OF HOUSE
2. FSB: FIRE SET BACKS
3. (E): EXISTING
4. (N): NEW
5. PV: PHOTOVOLTAIC
6. MAX: MAXIMUM
7. OCPD: OVERCURRENT PROTECTION DEVICE



CUSTOMER NAME

JOHN DOE

SCALE



PROJECT
EXAMPLE DRAWINGS
FOR SMALL SOLAR
INTERCONNECTIONS

INSTALLATION ADDRESS

INSTALLER NAME & CONTACT

SHEET
SITE PLAN
SUBMITTAL
EXAMPLE

| # | DATE | REVISION |
|----|----------|-----------------|
| 01 | 09/12/17 | Xcel's Comments |
| 02 | 10/04/17 | Xcel's Comments |
| 03 | 10/09/17 | Relocated MSP |

APPLICATION OID OR SRC NUMBER

PROFESSIONAL CERTIFICATION

DRAWN BY
R PAWAR

CHECKED BY
S DAS

DATE
08.10.17

PROJECT #
2017-106.1

SHEET NUMBER

E-101-01

SYSTEM SIZE
3.8 KW AC / 4.48 4W DC

ONE-LINE EXAMPLE A:
FOR SINGLE INVERTER SYSTEMS



CUSTOMER NAME

JOHN DOE

SCALE

PROJECT
EXAMPLE DRAWINGS
FOR SMALL SOLAR
INTERCONNECTIONS

INSTALLATION ADDRESS

INSTALLER NAME & CONTACT

SHEET
ONE LINE DIAGRAM
SUBMITTAL
EXAMPLE

| # | DATE | REVISION |
|----|----------|-----------------|
| 01 | 09/12/17 | Xcel's Comments |
| 02 | 10/04/17 | Xcel's Comments |

APPLICATION OID OR SRC NUMBER

PROFESSIONAL CERTIFICATION

DRAWN BY
R PAWAR

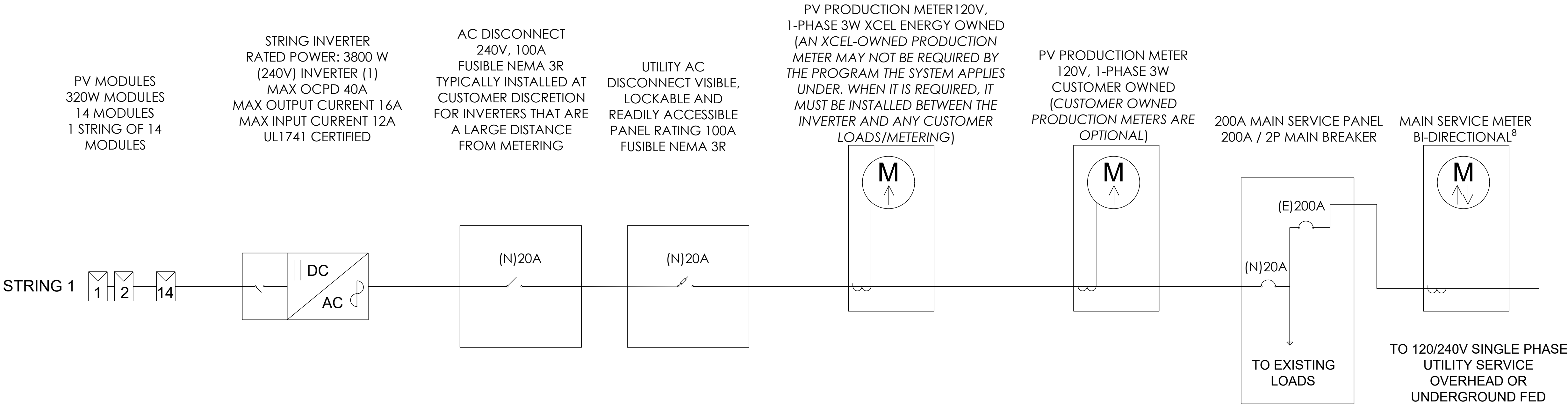
CHECKED BY
S DAS

DATE
08.10.17

PROJECT #
2017-106.1

SHEET NUMBER

E-101-02A



| | PV MODULE | INVERTER | UTILITY DISCONNECT | PV METER | MAIN SERVICE PANEL | INTERCONNECTION METHOD |
|---------|-----------|----------|--------------------|----------|--------------------|------------------------|
| Make: | | | | | | |
| Model: | | | | | | |
| Rating: | | | | | | |
| Total: | | | | | | |

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- UTILITY AC DISCONNECT SHOULD BE LOCATED WITHIN 10 FEET OF THE MAIN SERVICE METER
- NOTE ALL THE APPLICABLE NEC CODES
- SHOW ALL THE SYSTEMS INCLUDING STORAGE, EXISTING AND NEW (IF APPLICABLE)
- SERVICES <320A WILL USE SELF-CONTAINED MAIN SERVICE METERS. 320A SERVICES MUST INDICATE WHETHER THE MTERING WILL BE SELF-CONTAINED OR TRANSFORMER METERED. ALL SERVICES 400A OR GREATER MUST BE TRANSFORMER METERED

PV SYSTEM:

ROOF SLOPE: 20°
AZIMUTH: 180°
PV MODULES: 320W
TOTAL: 14
MODULES PER STRING: 14

RACK CONFIGURATION:

INVERTER INFORMATION:

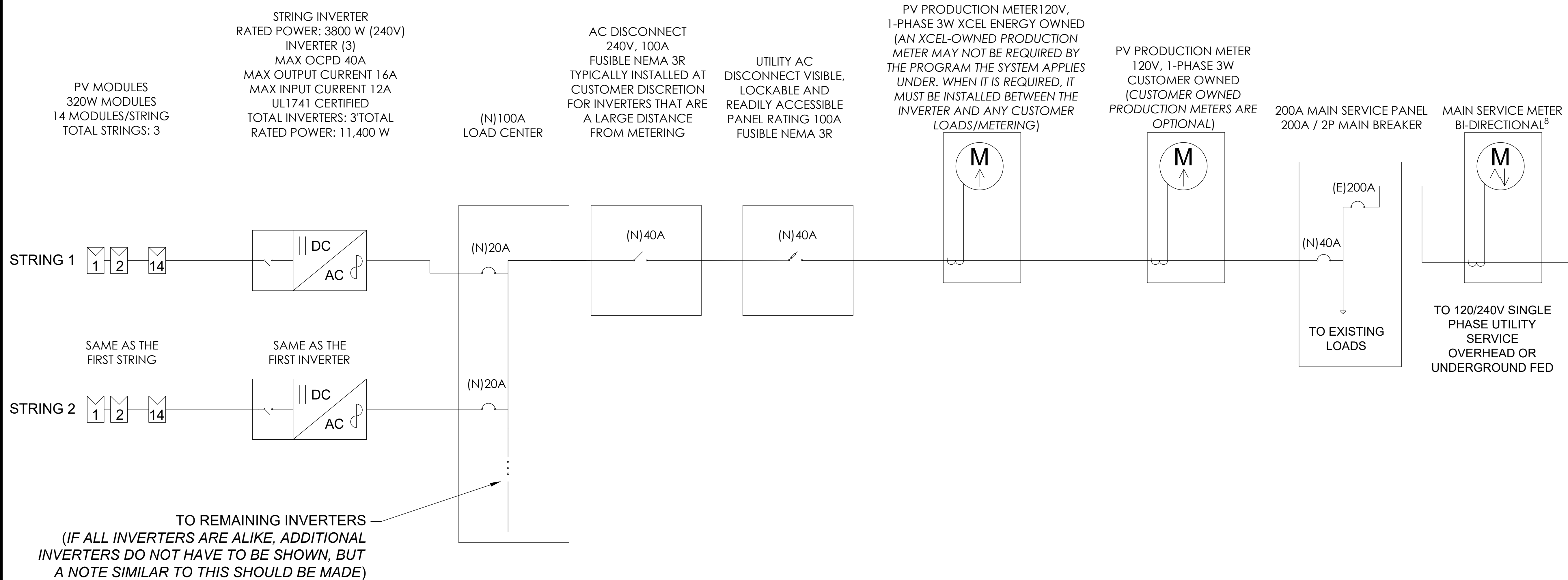
3.8 KW UL CERTIFIED INTVERTER, (1)
DC/AC RATIO: 1:179

ABBREVIATIONS:

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- FSB: FIRE SET BACKS
- (E): EXISTING
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- MAX: MAXIMUM
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SYSTEM SIZE
3.8 KW AC / 4.48 4W DC

ONE-LINE EXAMPLE B:
FOR MULTIPLE INVERTER SYSTEMS



| | PV MODULE | INVERTER | UTILITY DISCONNECT | PV METER | MAIN SERVICE PANEL | INTERCONNECTION METHOD |
|---------|-----------|----------|--------------------|----------|--------------------|------------------------|
| Make: | | | | | | |
| Model: | | | | | | |
| Rating: | | | | | | |
| Total: | | | | | | |

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- UTILITY AC DISCONNECT SHOULD BE LOCATED WITHIN 10 FEET OF THE MAIN SERVICE METER
- NOTE ALL THE APPLICABLE NEC CODES
- SHOW ALL THE SYSTEMS INCLUDING STORAGE, EXISTING AND NEW (IF APPLICABLE)
- SERVICES <320A WILL USE SELF-CONTAINED MAIN SERVICE METERS. 320A SERVICES MUST INDICATE WHETHER THE MTERING WILL BE SELF-CONTAINED OR TRANSFORMER METERED. ALL SERVICES 400A OR GREATER MUST BE TRANSFORMER METERED

PV SYSTEM:

ROOF SLOPE: 20°
AZIMUTH: 180°
PV MODULES: 320W
TOTAL: 32
MODULES PER STRING: 14

RACK CONFIGURATION:

INVERTER INFORMATION:

3.8 KW UL CERTIFIED INTVERTER, (3)
DC/AC RATIO: 1.179

ABBREVIATIONS:

- FOH: FRONT OF HOUSE
- FSB: FIRE SET BACKS
- (E): EXISTING
- (N): NEW
- PV: PHOTOVOLTAIC
- MAX: MAXIMUM
- OCPD: OVERCURRENT PROTECTION DEVICE

SYSTEM SIZE
11.4 KW AC / 13.44 W DC



CUSTOMER NAME

JOHN DOE

SCALE

PROJECT
EXAMPLE DRAWINGS
FOR SMALL SOLAR
INTERCONNECTIONS

INSTALLATION ADDRESS

INSTALLER NAME & CONTACT

SHEET
ONE LINE DIAGRAM
SUBMITTAL
EXAMPLE

| # | DATE | REVISION |
|----|----------|-----------------|
| 01 | 09/12/17 | Xcel's Comments |
| 02 | 10/04/17 | Xcel's Comments |

APPLICATION OID OR SRC NUMBER

PROFESSIONAL CERTIFICATION

DRAWN BY
R PAWAR

CHECKED BY
S DAS

DATE
08.10.17

PROJECT #
2017-106.1

SHEET NUMBER

E-101-02B

1

PRODUCTION METER

2

Photovoltaic Power Source

3

WARNING
ELECTRIC SHOCK HAZARD
THE DC CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM ARE UNGROUNDED AND MAY BE ENERGIZED

4

WARNING
ELECTRIC SHOCK HAZARD
DO NOT TOUCH THESE TERMINALS. TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

5

WARNING
ELECTRIC SHOCK HAZARD
WHEN A *GROUND FAULT* IS ACTIVE CONDUCTORS THAT ARE NORMALLY GROUNDED MAY BE UNGROUNDED AND ENERGIZED

6

CAUTION
PHOTOVOLTAIC SYSTEM IS BACKFED

7

WARNING
Turn off AC disconnect prior to working inside panel

8

DO NOT DISCONNECT UNDER LOAD

9

PV SYSTEM DC DISCONNECT

10

MAIN PV SYSTEM AC DISCONNECT

11

CAUTION
PHOTOVOLTAIC ENERGY IS BEING FED INTO THIS SYTEM

12

CAUTION
DUAL POWER SOURCE SECOND SOURCE IS A PV SYSTEM

13

CAUTION
MAXIMUM OPERATING CURRENT 16 A
MAXIMUM OPERATING AC VOLTS 240 V

14

CAUTION
NOMINAL OPERATING AC VOLTAGE 240 V
NOMINAL OPERATING AC FREQUENCY 60 Hz
MAXIMUM AC POWER 3.8 kW
MAXIMUM AC CURRENT 16 A
OVERCURRENT PROTECTION RATING 20 A

NOTES:

- ALL PLAQUES AND SIGNAGE REQUIRED BY 2014 NEC 690 WILL BE INSTALLED AS REQUIRED
- LABELS, WARNING(S)AND MARKING SHALL COMPLY WITH ANSI Z535.4
- A PERMANENT PLAQUE OR DIRECTORY SHALL BE INSTALLED PROVIDING THE LOCATION OF THE SERVICE DISCONNECTING MEANS IF NOT IN THE SAME LOCATION IN COMPLIANCE WITH NEC 690.56(B)



CUSTOMER NAME

JOHN DOE

SCALE

PROJECT
EXAMPLE DRAWINGS FOR SMALL SOLAR INTERCONNECTIONS

INSTALLATION ADDRESS

INSTALLER NAME & CONTACT

SHEET
LABELS
SUBMITTAL
EXAMPLE

| # | DATE | REVISION |
|----|----------|-----------------|
| 01 | 09/12/17 | Xcel's Comments |
| 02 | 10/04/17 | Xcel's Comments |

APPLICATION OID OR SRC NUMBER

PROFESSIONAL CERTIFICATION

DRAWN BY R PAWAR
CHECKED BY S DAS

DATE 08.10.17
PROJECT # 2017-106.1

SHEET NUMBER

E-101-03

| Label Locations/Details | |
|-------------------------|---|
| 1 | Production Meter |
| 2 | PV System Utility AC Disconnect, Main Service Disconnect |
| 3 | DC BUS, DC Disconnect, Inverter(s) |
| 4 | PV System Utility AC Disconnect, Main Service Disconnect |
| 5 | DC BUS, DC Disconnect, Inverter(s) |
| 6 | PV System Utility AC Disconnect, PV-AC Disconnect load side and line side |
| 7 | PV-AC Disconnect |
| 8 | PV System Utility AC Disconnect |
| 9 | PV System DC Disconnect |
| 10 | PV System Utility AC Disconnect |
| 11 | Main Service Panel(House/Area Panel), Production meter |
| 12 | Main Service Panel(House/Area Panel), Production meter |
| 13 | PV-AC Disconnect, AC Panel combiner, Production meter |
| 14 | PV-AC Disconnect, AC Panel combiner, Production meter |

SYSTEM SIZE
3.8 KW AC / 4.48 4W DC