

## **SPECIAL DISTRICTS APPLICATION**

| Application Stage:            | Pre-ap                         | plication $\square$  |                  | Applica                                 | tion 🗵           |                 |                  |
|-------------------------------|--------------------------------|----------------------|------------------|---|------------------|-----------------|------------------|
| Permit Activity Number:       | DP21-0187<br><b>T21SA00389</b> | Case Number:         | DRB-21-1         | 5                                       | <u>D</u>         | ate Accepted:   | 10/4/2021        |
| PROPERTY LOCATION             | N AND PROPOSED                 | DEVELOPMEN           | T                |   |                  |                 |                  |
| Project / Development N       | lame (if applicable)           | : Wells Fargo -      | Tucson Ma        | ain Parl                                | king Garag       | e               |                  |
| Property Address: 35 E        | , ,                            |                      |                  |   | 99               |                 |                  |
| Pima County Tax Parce         |                                |                      |                  |   |                  |                 |                  |
| Current Zoning: OCR-2         |                                |                      |                  |   |                  |                 |                  |
| Applicable Overlay/           |                                | Incentive District   |                  | ⊠Rio                                    | Nuevo Area       |                 |                  |
| Special Districts:            | □Mair                          | n Gate Overlay Di    | strict           | □Grai                                   | nt Road Ove      | erlay District  |                  |
|                               |                                | hborhood Preser      |                  |   |                  | •               |                  |
| Neighborhood Association      | on (if any):                   | <u> </u>             |                  |   |                  |                 |                  |
| PROJECT TYPE (check           | ` ,                            |                      | Change           | of use to                               | o existing bu    | ilding □        |                  |
|                               | n vacant land □                |                      | New bui          | lding on                                | developed la     | and □           |                  |
| •                             | existing building [            |                      | Other >          | •                                       | •                |                 |                  |
| Description of Proposed       |                                |                      |                  |   | rking garag      | e               |                  |
| Number of Buildings and       |                                |                      |                  |   |                  |                 | n high side      |
| Site Area (sq ft):            | Area o                         | f Proposed Buildir   | ng (sq ft):      |   |                  |                 |                  |
| HISTORIC STATUS               |                                |                      |                  |   |                  |                 |                  |
| Site is within a:             | Historic Preserv               | ation Zone Please    | ı l iet          |   |                  |                 |                  |
| Olto lo Within a.             |                                |                      |                  | vntowi                                  | n Tucson         | National H      | istoric District |
| Site is/includes:             | ☐A contributing                |                      | , 2.00. 201      |   | contributing     |                 |                  |
|                               | •                              | a contributing str   | ructure          | □Vaca                                   | •                |                 |                  |
|                               |                                | a continuating of    | actaro           | _ ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |                  |                 |                  |
| APPLICANT INFORMA             | TION (The person p             | rocessing the applic | cation and d     | esignated                               | d to receive no  | otices):        |                  |
| APPLICANT NAME: Jov           | zanka Potkoniak .              | - Ameresco Inc       |                  |   |                  |                 |                  |
|                               | perty owner                    | ☐ Architect          | □Engir           | neer                                    | □Attorne         | y 🖾 Deve        | aloner           |
| Other:                        | perty owner                    | □/\rom\cot           | □ <b>L</b> ligii | 1001                                    | □ Attorne        | y Zibevi        | лорсі            |
| EMAIL: jpotkonjak@amere       | esco.com PHONI                 | E: 480-499-914       | 3                |   |                  |                 |                  |
| ADDRESS: 2375 E Car           | melback Rd #400                | , Phoenix, AZ 8      | 5016             |   |                  |                 |                  |
| PROPERTY OWNER N              | AME(S) (If ownershi            | p in escrow, please  | note): We        | lls Farg                                | o Bank NA        |                 |                  |
| PHONE:                        |                                |                      |                  |   |                  |                 |                  |
| I hereby certify that all inf | ormation contained             | $\sim$               | ^ ·              |   | ,                | of my knowledge | <b>)</b> .       |
| SIGNATURE OF OWNE             | R/APPLICANT*                   | Jovanka              | Potko            | njak                                    | ,                |                 |                  |
| *If an authorized represent   | ative is signing on be         | half of the property | owner, plea      | aše provid                              | de a letter of a | authorization   | Date             |



To: City of Tucson Planning and Development Services Department

RE: Letter of Authorization for development at 35 E Alameda St

Activity Number DP21-0187 Date: September 20, 2021

To Whom It May Concern,

Wells Fargo Bank N.A., the system owner of proposed solar project at **35** E **Alameda St**, authorizes the applicant, Jovanka Potkonjak, with Ameresco, Inc., the Developer, to submit the Special Districts application required by the City on our behalf. The activity number associated with this project is DP21-0187.

Thank you,

Anmar Baban

VP Corporate Properties Group

Wells Fargo Bank, N.A

Together we'll go far





To: City of Tucson Planning & Development Department

**RE: Project Statement** 

Date: Sept. 9, 2021

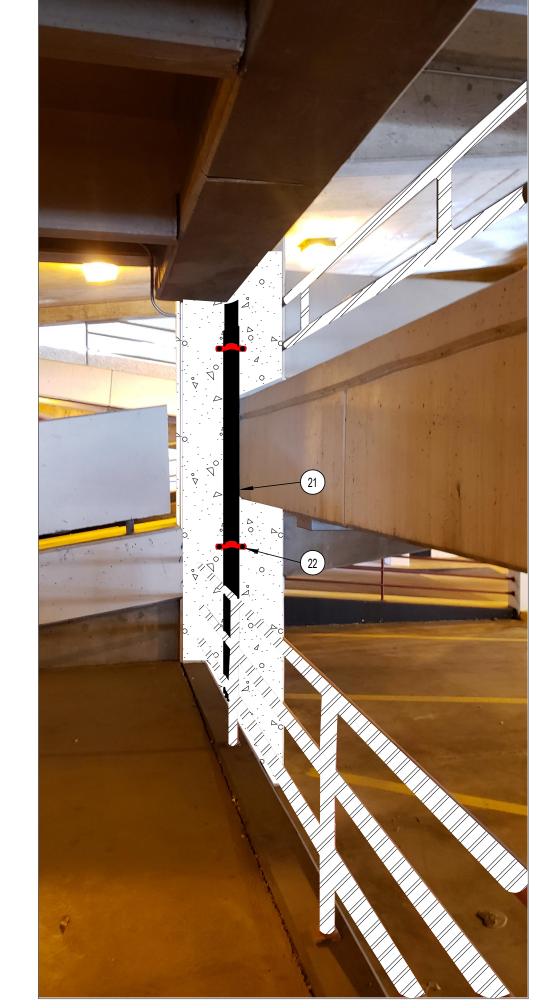
To Whom It May Concern,

Ameresco, Inc. is proposing to install a single solar carport on top of an existing parking garage in the downtown Tucson area at 35 E Alameda St. This parking garage serves the Wells Fargo bank branch at 150 N Stone Ave. The plans currently follow all NEC and City of Tucson guidelines and have been submitted to Tucson Electric Power for utility review and interconnection approval. Additionally, the plans have been submitted to the City of Tucson as a development package (activity number DP21-0187). The comments provided are in progress with resubmission forthcoming. Ameresco, Inc. is not requesting any special modifications or exemptions at this time.

Please contact the applicant, Jovanka Potkonjak, at (480)-499-9143 or <a href="mailto:ipotkonjak@ameresco.com">ipotkonjak@ameresco.com</a> for any questions or concerns.

Sincerely,

Jovanka Potkonjak



# CONDUIT ROUTING TO TOP OF PARKING GARAGE BY NO SCALE

**EXISTING** 

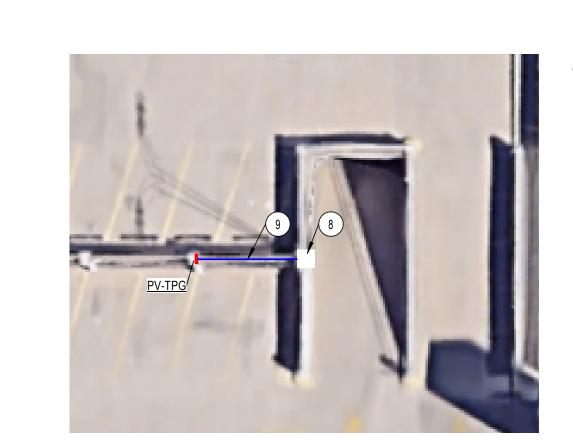
**RAILING** 

E3A

#### **OVERALL SITE PLAN** Solar Array Schedule - SERVICE TUCSON PARKING GARAGE STC SYSTEM SYSTEM SIZE AC MODULE TOTAL # OF **MODULES** DC/AC TILT ANGLE PER STRING STRINGS SIZE **RATIO** (kWp) MANUFACTURER MODULE MODEL Sub-Array **MODULES** WATTS **AZIMUTH** INVERTER JAM72S09-385/PR 1 INV1.25.04.A JA Solar 385 W 27.7 kW 25 kW 1.1088 5° 1.1088 INV2.25.04.A JA Solar JAM72S09-385/PR 1 385 W 27.7 kW 25 kW INV3.25.05.A JA Solar JAM72S09-385/PR 1 385 W 33.5 kW 260° 5° 17 1.3398 25 kW 231 88.9 kW 75 kW 1.1853

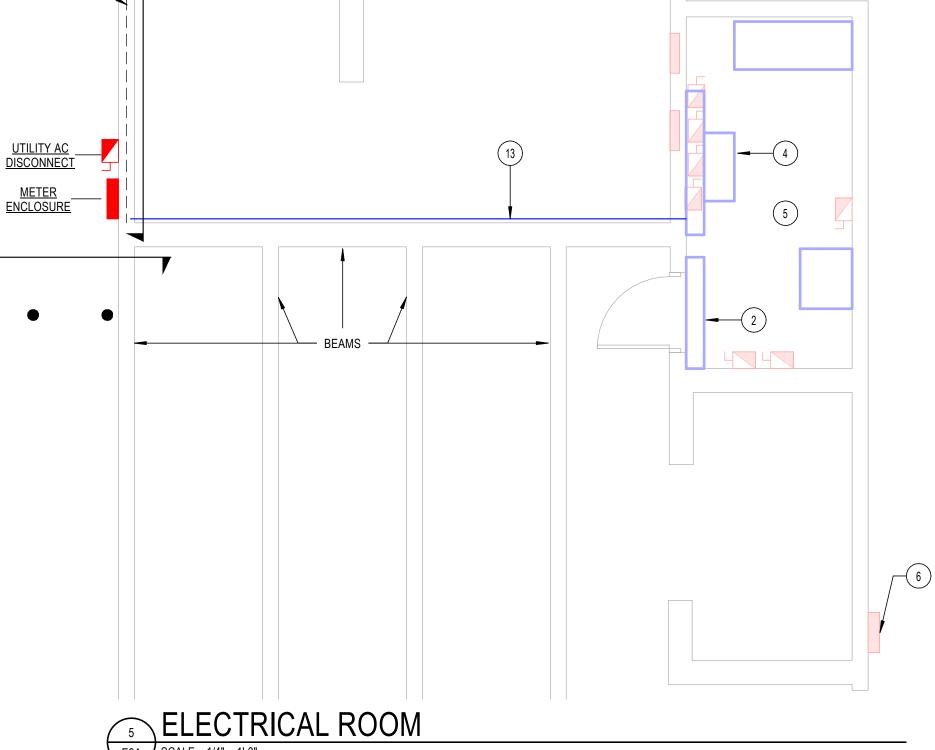


NEW PV EQUIPMENT ON MAIN LEVEL



OVERALL SITE PLAN CONDUIT LOCATION

A NO SCALE



# **KEYED NOTES**

- 1 EXISTING SERVICE LATERALS FEED FROM TRANSFORMER
- 2 EXISTING GUTTER IS ABOVE DOOR.
- 3 APPROXIMATE ELEVATOR CONTROL ROOM ON MAIN
- 4 APPROXIMATE LOCATION OF INCOMING UTILITY SERVICE LATERAL CONDUCTORS CT ENCLOSURE.
- 5 REFER TO SHEET E5 FOR FURTHER INFOMRATION.
- 6 LOCATION OF EXISTING TEP METER. APPROXIMATE LOCATION ON EXTERIOR WALL OF ELEVATOR.
- 8 ROUTE CONDUIT TO A WHEATHER PROOF JUNCTION BOX TO CONNECT TO AC COMBINER LOCATED ON THE
- 9 RACEWAY AND CONDUCTORS ROUTED ON TOP OF CONCRETE WALL TO CONNECT TO THE AC COMBINER.
- 10 LOCATION OF EXISTING UTILITY PAD MOUNT TRANSFORMER.
- 11 LOCATION OF EXISTING UNDERGROUND UTILITY VAULT.
- 12 LOCATION OF EXISTING SERVICE SECTION SWITCHBOARD TO SERVE WELLS FARGO BUILDING.
- 13 CONDUIT TO BE RAN TIGHT AGAINST THE SIDE OF THE
- 14 EXISTING SEWER MANHOLE.
- 15 EQUIPMENT IS TO BE INSTALLED ON FLAT MAIN LEVEL NEXT TO THE GUARD RAIL. PARKING SPOT WILL BE PERMANENTLY OCCUPIED WITH ELECTRICAL EQUIPMENT AND BOLLARDS.
- 16 CONDUIT IS ROUTED ON THE UPPER MOST PART OF THIS SIDE OF BEAM PER VIEW 5/E3A.
- 17 CONDUIT TO BE ROUTED UP TO THE TOP OF THE PARKING GARAGE. REFER TO 6/E3A FOR CONDUIT TO RUN VERTICAL THROUGH PARKING STRUCTURE TO THE TOP. REFER TO VIEW 4/E3A FOR EXACT LOCATION FOR CONDUIT POP OUT.
- 18 PROVIDE BOLLARDS TO PROTECT ELECTRICAL EQUIPMENT.
- 19 LOCATION OF IRRADIANCE SENSOR.
- 21 CONDUIT MOUNTED TO STRUCTURE ROUTED VERTICAL THROUGH THE PARKING GARAGE TO THE AC COMBINER PANEL LOCATED ON CARPORT PER 4/E3A.
- 22 PROVIDE CONDUIT SUPPORT AS NEEDED PER NEC 344.30

# **GENERAL NOTES**

- A. PROVIDE CONDUIT EXPANSION JOINTS WHERE THE DISTANCE OF ANY CONDUIT EXCEEDS 75' IN ANY DIRECTION OR WHERE ANY CONDUIT CROSSES A BUILDING EXPANSION JOINT.
- B. PROVIDE PULLBOXES AS REQUIRED IN CONDUIT RUNS TO ALLOW NO MORE THAN FOUR 90 DEGREE BENDS IN ANY RUN. PULLBOXES SHALL BE NEMA 3R AND SIZED IN ACCORDANCE WITH THE NEC ARTICLE 314.28.
- C. INSTALL MODULES AND ALL ASSOCIATED CABLING (INCLUDING GROUNDING) PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. DO NOT DRILL HOLES OR MODIFY THE FRAMES OF THE MODULES AS IT WILL VOID THE WARRANTY.
- ALL CONDUCTORS INSTALLED WITHIN RACKING SYSTEM SHALL BE INSTALLED PER NEC REQUIREMENTS. SUPPORT CONDUCTORS PER RACKING MANUFACTURER'S INSTALLATION INSTRUCTIONS AND PROVIDE SUPPORT CLIPS AS REQUIRED. CONDUCTORS SHALL NOT LAY ON THE ROOF.
- E. ALL BRANCH CIRCUIT CONDUITS SHALL BE PROVIDED WITH GROUND BONDING BUSHINGS AT THE CONNECTION TO THE ASSOCATED PANELBOARD ENCLOSURE.

WHERE REQUIRED DUE TO LAYOUT, PROVIDE #10AWG COPPER

- 2000VDC PV-WIRE MODULE JUMPERS TO EXTEND MODULE LEADS TO COMPLETE STRING(S). COORDINATE CONNECTORS WITH MODULE MANUFACTURER.
- G. COORDINATE ALL CONDUIT ROUTING IN FIELD AND WITH OWNER PRIOR TO INSTALLATION.
- H. PAINT ALL VISIBLE EXPOSED CONDUITS TO MATCH BUILDING
- I. ALL NON-METALIC SHEATHED CABLE (INCLUDING THE WIRE WHIPS AT THE JUNCTION BOX BEHIND THE MODULE) SHALL BE SUPPORTED AND SECURED EVERY 54" AND WITHIN 12" OF EVERY JUNCTION BOX OR FITTING IN ACCORDANCE WITH NEC 334.30.

385W PHOTOVOLTAIC MODULE

25KVA INVERTER, DAS, AC COMBINER PANEL

LIGHTING

2375 EAST CAMELBACK ROAD, SUITE 400 PHOENIX, AZ 85016 480.499.9200

www.ameresco.com

7290 W 133RD ST, OVERLAND PARK, KS 66213 913.897.7811

www.dlrgroup.com

PROJECT NO: 74040

BE #198359

SEALS AND SIGNATURES

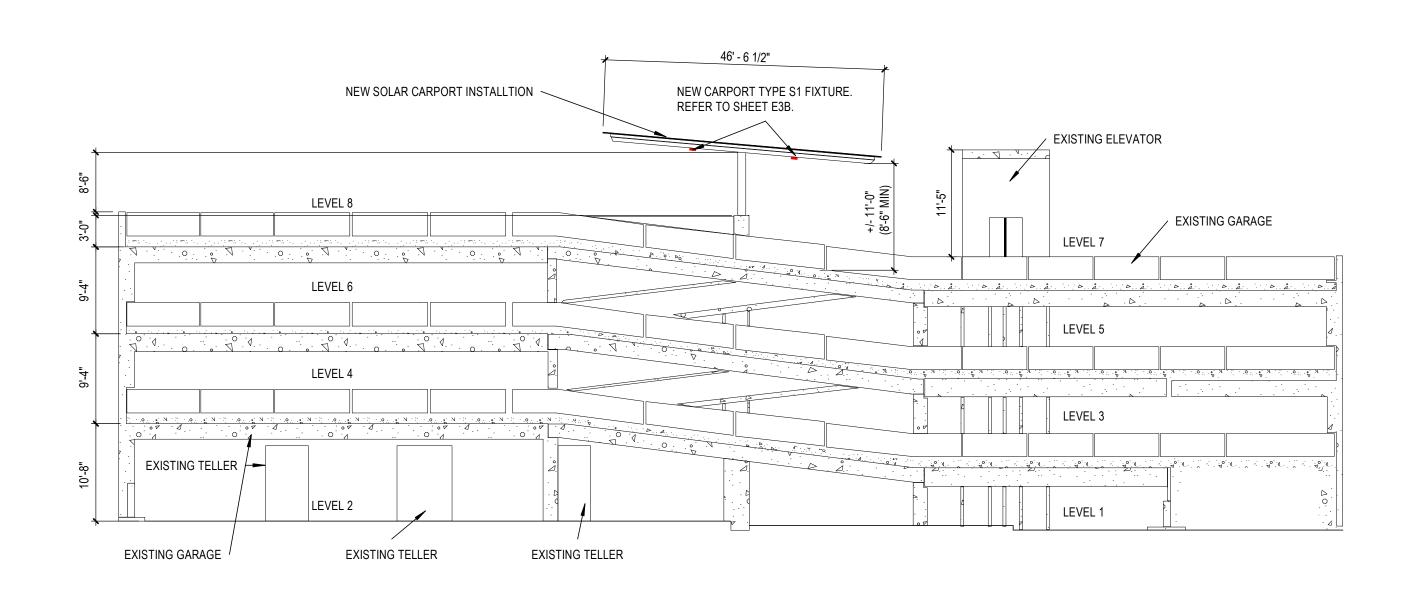
| REV  | ISSUED FOR         | DATE    |
|------|--------------------|---------|
| Α    | 60% AECOM RESPONSE | 8/17/21 |
| В    | PERMIT SET         | 08/02/2 |
|      |                    |         |
|      |                    |         |
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|      |                    |         |
| DRA۱ | WING TITLE         |         |

**OVERALL SITE** PLAN

PROJECT NO. **76070** 

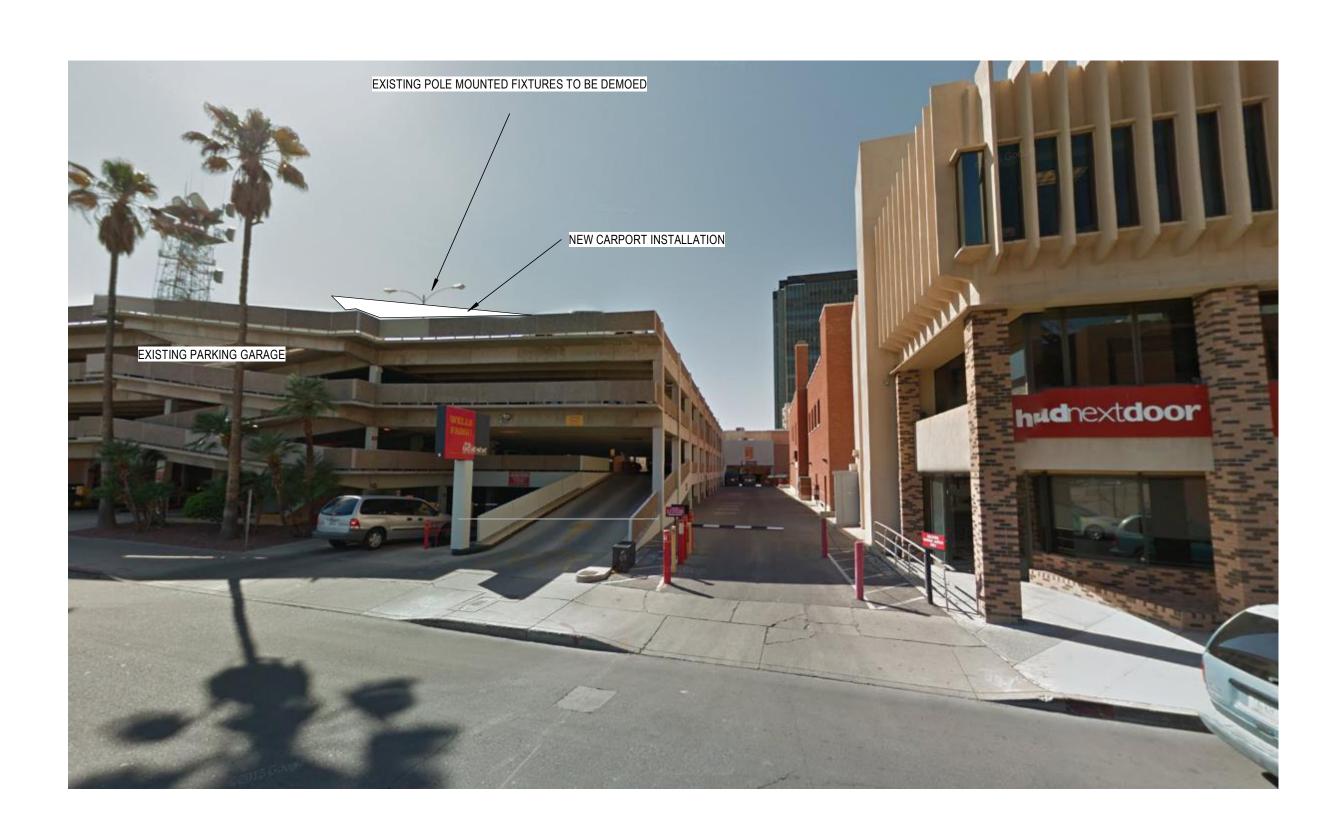
DRAWING NUMBER

E3A



# NORTH PARKING GARAGE SECTION VIEW E10 SCALE: 1/16" = 1'-0"





WEST PARKING GARAGE SECTION VIEW

SCALE: 1/16" = 1'-0"

NORTH EAST PARKING GARAGE SECTION VIEW

2375 EAST CAMELBACK ROAD, SUITE 400 PHOENIX, AZ 85016 480.499.9200

7290 W 133RD ST, OVERLAND PARK, KS 66213 913.897.7811 www.dlrgroup.com PROJECT NO: 74040

www.ameresco.com

BE #198359

MAIN

PARKING S FARGO

SEALS AND SIGNATURES

ISSUED FOR 60% AECOM RESPONSE PERMIT SET

DRAWING TITLE

**ELEVATION PLANS** 

PROJECT NO. **76070** 

DRAWING NUMBER

E10













## Harvest the Sunshine







Excellent low-light performance



Lower temperature coefficient

#### **Superior Warranty**

- 12-year product warranty
- 25-year linear power output warranty



■ JA Linear Power Warranty ■ Industry Warranty

#### **Comprehensive Certificates**

- IEC 61215, IEC 61730, UL 1703, IEC TS 62804, IEC 61701, IEC 62716. IEC 60068-2-68
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- OHSAS 18001: 2007 Occupational health and safety management systems
- IEC TS 62941: 2016 Terrestrial photovoltaic (PV) modules -Guidelines for increased confidence in PV module design qualification and type approval



















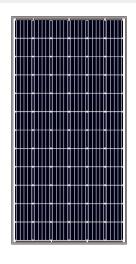


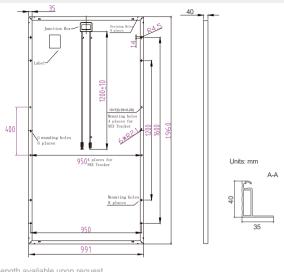




## JAM72S01 365-385/PR Series

#### **MECHANICAL DIAGRAMS**





## **SPECIFICATIONS**

| Cell                     | Mono              |
|--------------------------|-------------------|
| Weight                   | 22kg±3%           |
| Dimensions               | 1960mm×991mm×40mm |
| Cable Cross Section Size | 4mm² (12AWG)      |
| No. of cells             | 72(6x12)          |
| Junction Box             | IP67, 3 diodes    |
| Connector                | QC 4.10           |
| Packaging Configuration  | 27 Per Pallet     |

Remark: customized frame color and cable length available upon request

#### **ELECTRICAL PARAMETERS AT STC**

| TYPE   | JAM72S01<br>-365/PR | JAM72S01<br>-370/PR | JAM72S01<br>-375/PR | JAM72S01<br>-380/PR | JAM72S01<br>-385/PR |
|--|---------------------|---------------------|---------------------|---------------------|---------------------|
| Rated Maximum Power(Pmax) [W]                | 365                 | 370                 | 375                 | 380                 | 385                 |
| Open Circuit Voltage(Voc) [V]                | 47.93               | 48.18               | 48.45               | 48.71               | 48.98               |
| Maximum Power Voltage(Vmp) [V]               | 39.21               | 39.45               | 39.75               | 40.03               | 40.29               |
| Short Circuit Current(Isc) [A]               | 9.85                | 9.91                | 9.98                | 10.05               | 10.11               |
| Maximum Power Current(Imp) [A]               | 9.31                | 9.38                | 9.44                | 9.50                | 9.56                |
| Module Efficiency [%]                        | 18.8                | 19.0                | 19.3                | 19.6                | 19.8                |
| Power Tolerance                              |                     |                     | 0~+5W               |                     |                     |
| Temperature Coefficient of $Isc(\alpha_Isc)$ |                     |                     | +0.060%/°C          |                     |                     |
| Temperature Coefficient of Voc(β_Voc)        |                     |                     | -0.300%/℃           |                     |                     |

-0.380%/℃ Temperature Coefficient of Pmax(γ\_Pmp)

STC Irradiance 1000W/m², cell temperature 25℃, AM1.5G

Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

#### **ELECTRICAL PARAMETERS AT NOCT**

| TYPE                           | JAM72S01<br>-365/PR | JAM72S01<br>-370/PR | JAM72S01<br>-375/PR | JAM72S01<br>-380/PR | JAM72S01<br>-385/PR |
|--------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Rated Max Power(Pmax) [W]      | 268                 | 272                 | 276                 | 279                 | 283                 |
| Open Circuit Voltage(Voc) [V]  | 44.33               | 44.55               | 44.81               | 45.09               | 45.38               |
| Max Power Voltage(Vmp) [V]     | 36.25               | 36.50               | 36.75               | 36.99               | 37.23               |
| Short Circuit Current(Isc) [A] | 7.80                | 7.86                | 7.91                | 7.96                | 8.01                |
| Max Power Current(Imp) [A]     | 7.40                | 7.45                | 7.50                | 7.55                | 7.60                |
| NOCT                           |                     |                     |                     |                     |                     |

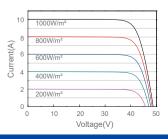
Irradiance 800W/m², ambient temperature 20  $^{\circ}\!\!\mathrm{C}$  ,wind speed 1m/s, AM1.5G

### **OPERATING CONDITIONS**

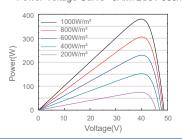
| Maximum System Voltage    | 1000V/1500V DC(UL) |
|---------------------------|--------------------|
| Operating Temperature     | -40℃~+85℃          |
| Maximum Series Fuse       | 20A                |
| Maximum Static Load,Front | 5400Pa(112 lb/ft²) |
| Maximum Static Load,Back  | 2400Pa(50 lb/ft²)  |
| NOCT                      | <b>45±2</b> ℃      |
| Application Class         | Class A            |
| Fire Performance          | Type 1             |

#### **CHARACTERISTICS**

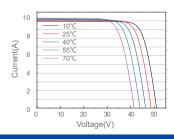
Current-Voltage Curve JAM72S01-380/PR



Power-Voltage Curve JAM72S01-380/PR



Current-Voltage Curve JAM72S01-380/PR





# 25kW 208V, 1000Vdc String Inverters for North America

The 25kW (25kVA) CPS three phase string inverters are designed for rooftop and carport applications. The units are high performance, advanced and reliable inverters designed specifically for the North American environment and grid. High efficiency at 97.0% peak and 96.5% CEC, wide operating voltages, broad temperature ranges and a NEMA Type 4X enclosure enable this inverter platform to operate at high performance across many applications. The CPS 25KTL product ships with the Rapid Shutdown wirebox, fully integrated and separable with touch safe fusing, monitoring, and AC and DC disconnect switches. The integrated PLC transmitter in the Rapid Shutdown wire-box enables PVRSS certified module-level rapid shutdown when used with the Tigo TS4-F/TS4-A-F products, APS RSD-S-PLC-A products, and NEP PVG-4 products. The CPS Flex Gateway enables monitoring, controls and remote product upgrades.

#### **Key Features**

- NEC 2017 PVRSS Certified Rapid Shutdown
- NEC 2014/17 compliant & UL listed Arc-Fault circuit protection
- 15-90° Mounting orientation for low profile roof installs
- Optional Flex Gateway enables remote FW upgrades
- Integrated AC & DC disconnect switches
- 3 MPPT's with 2 inputs each for maximum flexibility
- Copper and Aluminum compatible AC connections
- NEMA Type 4X outdoor rated, tough tested enclosure
- UL1741 SA Certified to CA Rule 21, including SA14 FW and SA15 VW
- Separable wire-box design for fast service
- Standard 10 year warranty with extensions to 20 years
- Generous 1.5 DC/AC Inverter Load Ratio



CPS SCA25KTL-DO/US-208



25KTL Rapid Shutdown Wire-box







| Model Name                                    | CPS SCA25KTL-DO/US-208  |
|---|---|
| DC Input                                      |   |
| Max. PV Power                                 | 37.5kW (12.5kW per MPPT)  |
| Max. DC Input Voltage                         | 1000Vdc   |
| Operating DC Input Voltage Range              | 200-950Vdc  |
| Start-up DC Input Voltage / Power             | 330V / 80W  |
| Number of MPP Trackers                        | 3   |
| MPPT Voltage Range @ PF>0.99                  | 480-850Vdc  |
| Max. PV Short-Circuit Current (Isc x 1.25)    | 135A (45A per MPPT)   |
| Number of DC Inputs                           | 6 inputs, 2 per MPPT  |
| DC Disconnection Type                         | Load-rated DC switch  |
| DC Surge Protection                           | Type II MOV, $2800V_{C}$ , $20kA I_{TM} (8/20 \mu S)$                                 |
| AC Output                                     |   |
| Rated AC Output Power @ PF>0.99               | 25kW  |
| Max. AC Apparent Power (Selectable)           | 25kVA   |
| Rated Output Voltage                          | 208Vac  |
| Output Voltage Range <sup>1</sup>             | 183 - 228Vac  |
| Grid Connection Type                          | 3Φ / PE / N (Neutral optional)  |
| Max. AC Output Current @480Vac                | 69.5A   |
| Rated Output Frequency                        | 60Hz  |
| Output Frequency Range <sup>1</sup>           | 57 - 63Hz   |
| Power Factor                                  | >0.99 (±0.8 adjustable)   |
| Current THD @ Rated Load                      | <3%   |
| Max. Fault Current Contribution (1 Cycle RMS) | 64.1A (0.92 PU)   |
| Max. OCPD Rating                              | 110A  |
| AC Disconnection Type                         | Load-break rated AC switch  |
| AC Surge Protection                           | Type II MOV, 1240 $V_C$ , 15kA I <sub>TM</sub> (8/20 $\mu$ S)                         |
| System and Performance                        | 1 yps 11 1110 t, 12 10 tc, 1010 t 1 <sub>1M</sub> (0,2040)                            |
| Topology                                      | Transformerless   |
| Max. Efficiency                               | 97.0%   |
| CEC Efficiency                                | 96.5%   |
| Stand-by / Night Consumption                  | <1W   |
| Environment                                   |   |
| Enclosure Protection Degree                   | NEMA Type 4X  |
| Cooling Method                                | Variable speed cooling fans   |
|   | -22°F to +140°F / - 30°C to +60°C   |
| Operating Temperature Range <sup>2</sup>      | No low temp minimum to +158°F / +70°C maximum   |
| Non-Operating Temperature Range <sup>3</sup>  | 0 to 100%   |
| Operating Humidity                            |   |
| Operating Altitude                            | 13,123.4ft / 4000m (derating from 9842.5ft / 3000m)                                   |
| Audible Noise                                 | <60dBA @ 1m and 25°C  |
| Display and Communication                     | LCD+LED   |
| Jser Interface and Display                    |   |
| nverter Monitoring                            | SunSpec, Modbus RS485   |
| Site Level Monitoring                         | CPS Flex Gateway (1 per 32 inverters)   |
| Modbus Data Mapping                           | CPS   |
| Remote Diagnostics / FW Upgrade Functions     | Standard / (with Flex Gateway)  |
| Mechanical                                    | 20 4 4 20 2 4 40 24 7 (4222 4222 4222 4222 4222 4222 422                              |
| Dimensions (HxWxD)                            | 39.4 x 23.6 x 10.24in. (1000 x 600 x 260mm)   |
| Weight  | Inverter: 123.5lbs/56kg; Wire-box: 33lbs/15kg   |
| Mounting / Installation Angle <sup>4</sup>    | 15 to 90 degrees from horizontal (vertical or angled)                                 |
| AC Termination                                | M8 Stud Type Terminal Block (Wire range: #6 - 3/0AWG CU/AL, Lugs not supplied)        |
| DC Termination <sup>5</sup>                   | Screw Clamp, Neg. Busbar <sup>5</sup> Wire range: #14 - #6AWG CU                      |
| Fused String Inputs (2 per MPPT) <sup>6</sup> | 20A fuses provided (Fuse values up to 30A acceptable)                                 |
| Safety  |   |
| Certifications and Standards                  | UL1741-SA, UL1699B, UL1998, CSA-C22.2 NO.107.1-01, IEEE1547, FCC PART15               |
| Selectable Grid Standard                      | IEEE 1547, CA Rule 21, ISO-NE, HECO   |
| Smart-Grid Features                           | Volt-RideThru, Freq-RideThru, Ramp-Rate, Specified-PF, Volt-VAr, Freq-Watt, Volt-Watt |
| Warranty                                      |   |
| Standard                                      | 10 years  |
| Extended Terms                                | 15 and 20 years   |

- 1) The "Output Voltage Range" and "Output Frequency Range" may differ according to the specific grid standard.

  2) Active Power Derating begins; at 45°C when PF=1 and MPPT ≥Vmin, and at 50°C when PF=1 and MPPT V ≥ 700Vdc.

  3) See user manual for further requirements regarding non-operating conditions.

  4) Shade Cover accessory required for installation angles of 75 degrees or less.

  5) RSD wire-box only includes fuses/fuseholders on the positive polarity, compliant with NEC 2017, 690.9 (C).

  6) Fuse values above 20A have additional spacing requirements or require the use of the Y-Comb Terminal Block. See user manual for details.

#### **STATE OF ARIZONA**

#### HISTORIC PROPERTY INVENTORY FORM

Please type or print clearly. Fill out each applicable space accurately and with as much information as is known about the property. **Use** continuation sheets where necessary. Send completed form to: State Historic Preservation Office, 1300 W. Washington, Phoenix, AZ 85007

#### PROPERTY IDENTIFICATION

For properties identified through survey: Site No: <u>117-11-096C</u> Survey Area: <u>Downtown Tucson Historic District</u>

Historic Name(s): Parking Garage

(Enter the name(s), if any that best reflects the property's historic importance.)

| Address: <u>35 E. Alameda Street</u>                               |                           |  |
|--|---------------------------|--|
| City or Town: <u>Tucson</u>  | unty: <u>Pima</u> Tax F   | arcel No.: <u>117-11-096C</u>                      |
| Township: <u>14S</u> Range: 1 <u>3E</u> Section: <u>12</u>         | Quarter Section           | on: Acreage: <u>&lt;1</u>                          |
| Block: $\underline{0}$ Lot(s): $\underline{0}$ Plat (Addition)     | ): <u>Tucson Townsite</u> | Year of plat (addition): <u>1871</u>               |
| UTM reference: Zone <u>12</u> Easting: <u>992502</u> N             | Northing: <u>446597</u>   | USGS 7.5' quad map: <u>Tucson</u> , <u>Arizona</u> |
| Architect:   | not determined            | known (source:)                                    |
| Builder:   | not determined            | known (source:)                                    |
| Construction Date: <u>1968</u>                                     | known                     | estimated (source: <u>Pima County Assessor</u> )   |
| STRUCTURAL CONDITION  ☐ Good (well maintained, no serious problems | s apparent)               |  |
| Fair (some problems apparent) Describe:                            | <u></u>                   |  |
| Poor (major problems; imminent threat) Des                         | scribe:                   |  |
| Ruin/Uninhabitable   |                           |  |

#### **USES/FUNCTIONS**

Describe how the property has been used over time, beginning with the original use.

Historic and Current: TRANSPORTATION/
Road Related

Sources:

<u>Pima County Assessor,</u> Field Observation

PHOTO INFORMATION
Date of photo: 6/19/2012
View Direction (looking towards)
Southwest
Negative No.:06-19-12 091



#### **SIGNIFICANCE**

To be eligible for the National Register of Historic Places, a property must represent an important part of the history or architecture of an area. Note: a property need only be significant under one of the areas below to be eligible for the National Register.

- A. HISTORIC EVENTS/TRENDS (On a continuation sheet describe how the property is associated either with a significant historic event, or with a trend or pattern of events important to the history of the nation, the state, or a local community.)
- B. PERSON (On a continuation sheet describe how the property is associated with the life of a person significant in the past.)
- C. ARCHITECTURE (On a continuation sheet describe how the property embodies the distinctive characteristics of a type, period, or method of construction, or that represents the work or a master, or possesses high artistic values.)

Outbuildings: (Describe any other buildings or structures on the property and whether they may be considered historic.) None

#### **INTEGRITY**

To be eligible for the National Register, a property must have integrity, that is, it must be able to visually convey its importance. Provide detailed information below about the property's integrity. Use continuation sheets if necessary.

- 1. LOCATION Original Site Moved (date ) Original Site:
- 2. DESIGN (Describe alterations from the original design, including dates known or estimated when alterations were made)

No apparent alterations

- 3. SETTING (Describe the natural and/or built environment around the property) Describe how the setting has changed since the property's period of significance: Across Alameda St. to the north, a new Pima County government complex was constructed in 2014. This large-scaled development demolished numerous buildings fronting opposite this 1968 parking garage. Likewise, many historic-period commercial stores immediately to the east have been demolished to create a surface parking lot.
- 4. MATERIALS (*Describe the materials used in the following elements of the property*)
  Walls (structure): <u>Concrete</u> Foundation: <u>Concrete</u> Roof: <u>Concrete</u>
  Windows: <u>n/a</u> If the windows have been altered, what were they originally? <u>n/a</u>

Date: <u>15 January 2015</u>

Phone No.:602-253-5381

5. WORKMANSHIP (Describe the distinctive elements, if any, of craftsmanship or method of construction) Very good example of precast concrete construction methods in a multi-level parking garage.

NATIONAL REGISTER STATUS (if listed, check the appropriate box)

|              | listed; | Contributor        | ∐Nor   | n-contributor to | H          | listoric Dis | trict |
|--------------|---------|--------------------|--------|------------------|------------|--------------|-------|
| Date Listed: | Det     | ermined eligible l | у Кеер | er of National R | Register ( | (date:       | )     |

RECOMMENDATIONS OF ELIGIBILITY (opinion of SHPO staff or survey consultant)

Property  $\square$  is  $\boxtimes$  is not eligible individually.

Property  $\boxtimes$  is  $\square$  is not eligible as a contributor to a potential historic district.

More information needed to evaluate.

If not considered eligible, state reason:

#### FORM COMPLETED BY:

Name and Affiliation: <u>Don W. Ryden, AIA – Ryden Architects, Inc.</u>

Mailing Address: 902 W. McDowell Rd, Phoenix, AZ 85007

#### STATE OF ARIZONA

#### HISTORIC PROPERTY INVENTORY FORM

**CONTINUATION SHEET** 

Name of property: <u>35 E. Alameda St Tucson, AZ</u> Continuation Sheet No. <u>1</u>

A. HISTORIC EVENTS/TRENDS (describe how the property is associated either with a significant historic event, or with a trend or pattern of events important to the history of the nation, the state, or a local community.)

This 1968 pre-cast concrete parking garage reflects the moment when the economic viability of Downtown Tucson ended as the community's central business district. Earlier retail buildings on this site were demolished to make room for this multi-level parking garage in an attempt to provide better access for suburban customers to shop in the remaining Downtown stores. The construction of the garage coincides with the on-set of urban renewal in the west end of Downtown and in the Barrio and with the opening of the I-10 freeway that replaced the earlier highway route running through Downtown.

B. PERSON (describe how the property is associated with the life of a person significant in the past.)

None determined.

C. ARCHITECTURE (describe how the property embodies the distinctive characteristics of a type, period, or method of construction, or that represents the work or a master, or possesses high artistic values.)

The pre-cast concrete structural system of this four-level parking garage clearly expresses it bays, decks, and ramps in the state-of-the-art technology and typology of this post-WWII building type. The expression of modular structure and of texture in concrete is typical of the Brutalism interpretation of the Modern architectural movement.

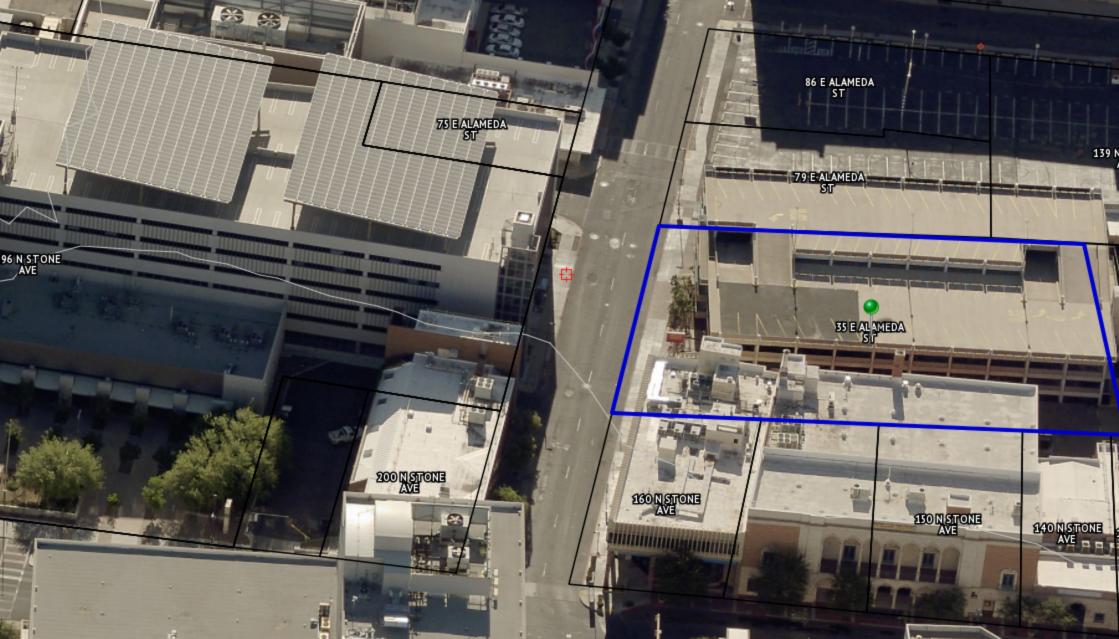
Outbuildings:

None.











To: City of Tucson Planning & Development Department

**RE: Zoning Review Comments** 

Date: Sept. 9, 2021

To Whom It May Concern,

Please see below for the zoning comments provided on development package DP21-0187 for the 'Wells Fargo – Tucson Main Parking Garage' site.

#### **Zoning Comments:**

- 1. City Comment: Provide a Development Package (DP) that meets the minimum requirements of the Checklist for Minor Changes to a Commercial/Industrial Sites.
  - a. Ameresco Response: Ameresco and our engineering partners have reviewed the checklist referenced. Existing zoning and zoning of adjacent property has been called out on sheet E3A. Additionally, the title sheet has been updated to include surrounding areas on the site map, appropriate contact information, and legal description. All formatting requirements have been adhered to throughout the plan set.
  - b. For other checklist items, there are no motorcycle or bicycle parking spaces in the area of disturbance. Pedestrian walkways will not be affected by the installation of the carport. Refuse collection areas are not in the area of disturbance. As landscaping will not be affected at all by the installation, a landscape plan is not required.
- 2. City Comment: Provide the development package case number, DP21-0187, adjacent to the title block on all sheets.
  - a. Revised the development package number has been added to the title block.
- 3. City Comment: As this site is located within Rio Nuevo Area (RNA) Design review is required prior to approval of this DP contact Maria Gayosso at <a href="Maria.Gayosso@tucsonaz.gov">Maria.Gayosso@tucsonaz.gov</a>.
  - a. Ameresco has contacted Maria Gayosso she has been made aware of this special districts submittal.
- 4. City Comment: Once design review is completed provide the RNA case number adjacent to the title block on all pages of the DP and provide a general note stating the RNA case number, date of approval, what was approved and if applicable any conditions of approval.
  - a. Noted. The RNA case number and approval information will be added once the review is complete.

Please contact the applicant, Jovanka Potkonjak, at (480)-499-9143 or <a href="mailto:jpotkonjak@ameresco.com">jpotkonjak@ameresco.com</a> for any questions or concerns.

Sincerely, Jovanka Potkonjak

