

**ANEXO 2 Formato de Solicitud de Interconexión a las Redes Generales de Distribución para Centrales Eléctricas con capacidad menor a 0.5 MW**

Fecha: 18/08/2025      Número de Solicitud: \_\_\_\_\_

| I. Datos del solicitante                                   |                                              |              |                        |
|------------------------------------------------------------|----------------------------------------------|--------------|------------------------|
| Nombre, denominación o razón social<br>OMAR ALCOGER GAMBOA |                                              |              |                        |
| Domicilio/Calle<br>CALLE 23 x 34 y 36                      | No. Exterior<br>346                          | No. Interior | Código postal<br>97130 |
| Colonia/Población<br>MONTECARLO                            | Delegación/Municipio<br>MERIDA               |              | Estado<br>YUCATAN      |
| Teléfono<br>8992593382                                     | Correo electrónico<br>arquiconalco@gmail.com |              | Fax                    |

| II. Datos del contacto                |                                                 |              |                        |
|---------------------------------------|-------------------------------------------------|--------------|------------------------|
| Nombre<br>AARON ALEXANDER CHIN CANCHE |                                                 |              |                        |
| Puesto<br>Administración              |                                                 |              |                        |
| Domicilio/Calle<br>Calle 23 X 18 Y 16 | No. Exterior<br>80                              | No. Interior | Código postal<br>97125 |
| Colonia/Población<br>MEXICO           | Delegación/Municipio<br>Merida                  |              | Estado<br>Yucatan      |
| Teléfono<br>9991 97 78 08             | Correo electrónico<br>alexcanche.grun@gmail.com |              | Fax                    |

| III. Datos de la solicitud |                                                                                                                                                                                      |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Modalidad de la solicitud  | <div style="display: flex; justify-content: space-around;"> <span>Baja tensión <input checked="" type="checkbox"/></span> <span>Media tensión <input type="checkbox"/></span> </div> |

| IV. Utilización de la energía eléctrica producida |                                     |                                                   |                          |
|---------------------------------------------------|-------------------------------------|---------------------------------------------------|--------------------------|
| Consumo de Centros De Carga                       | <input checked="" type="checkbox"/> | Consumo de Centros de Carga y venta de Excedentes | <input type="checkbox"/> |
|                                                   | <input type="checkbox"/>            | Venta total                                       | <input type="checkbox"/> |

| V. Datos del servicio del suministro actual       |                                        |
|---------------------------------------------------|----------------------------------------|
| Registro público de usuario (RPU)<br>771051100596 | Nivel de tensión del suministro<br>220 |

| VI. Central eléctrica                                          |                                     |                                              |                                                           |
|----------------------------------------------------------------|-------------------------------------|----------------------------------------------|-----------------------------------------------------------|
| Fecha estimada de operación<br>Normal(DD/MM/AAA)<br>18/09/2025 | Capacidad bruta instalada (kW)<br>5 | Capacidad a incrementar (kW) (opcional)<br>0 | Generación promedio mensual estimada (kW/h/mes)<br>767.52 |

| VII. Manifestación de cumplimiento de las especificaciones técnicas generales                                                                                    |                          |                          |                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|-------------------------------------|
| Manifiesto bajo protesta de decir verdad que la Central Eléctrica cumple con las especificaciones técnicas requeridas de acuerdo a las disposiciones aplicables. |                          |                          |                                     |
| Tecnología para generación de energía eléctrica                                                                                                                  |                          |                          |                                     |
| Solar                                                                                                                                                            | Biomasa                  | Otro                     | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/>                                                                                                                              | <input type="checkbox"/> | <input type="checkbox"/> |                                     |
| Eólica                                                                                                                                                           | Cogeneración             | Especificar _____        |                                     |
| <input type="checkbox"/>                                                                                                                                         | <input type="checkbox"/> |                          |                                     |

| No. de unidades de generación | Combustible principal | Combustible Secundario |
|-------------------------------|-----------------------|------------------------|
| 8 DE 615                      | 1 INVERSORES DE 5 K   |                        |
| Coordenadas UTM               | X                     | Y                      |
| 1                             | 21.029020             | -89.584104             |
| 2                             |                       |                        |
| 3                             |                       |                        |
| 4                             |                       |                        |
| 5                             |                       |                        |
| 6                             |                       |                        |

(Representante Legal o El solicitante) (El solicitante) certifica que la información proporcionada en la presente solicitud es apropiada, precisa y verídica. El solicitante acepta que los datos proporcionados sean utilizados para llevar a cabo los Estudios de Interconexión para garantizar la confiabilidad del Sistema Eléctrico Nacional con la Interconexión de la Central Eléctrica del Solicitante al amparo de la Ley de la Industria Eléctrica y su reglamento, en caso de ser requeridos.

El solicitante entiende que los datos proporcionados se añadirán a las bases de datos del Suministrador cuando se firme un contrato de Interconexión respectivo.

El solicitante deberá anexar a la presente solicitud, la información técnica requerida en el documento "Información Técnica Requerida para Centrales Eléctricas".

Firma de conformidad

Solicitante

Nombre: OMAR ALCOGER GAMBOA  
Cargo: CLIENTE  
Fecha: 18/08/2025

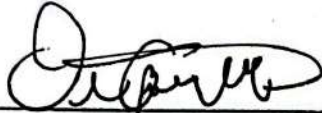
Sello y firma  
Centro de atención

Fecha: 18/08/2025

**CARTA PODER**

Por otorgó OMAR ALCOCER GAMBOA medio de la presente, Yo AARON ALEXANDER CHIN CANCHE poder especial, amplio y suficiente para que, conjunta o indistintamente, en **MI NOMBRE Y REPRESENTACIÓN**, realice los trámites correspondientes en COMISION FEDERAL DE ELECTRICIDAD para hacer la GESTIÓN para INSTALACION DE MEDIDOR BIDIRECCIONAL debido a la instalación de 8 CELDAS SOLARES MARCA JA SOLAR de **615 watts c/u**, que tiene como capacidad total **6.15 kW** en mi domicilio ubicado en **CALLE 23 NO.346 X 34 Y 36, COL. MONTECARLO, MÉRIDA, YUCATÁN. C.P. 97130**

QUIEN OTORGA EL PODER



OMAR ALCOCER GAMBOA

QUIEN RECIBE EL PODER



AARON ALEXANDER CHIN CANCHE

TESTIGOS



BILLY HARRY SOLIS CAMACHO



ROBERTO RODRIGUEZ VARGAS



MÉXICO

INSTITUTO NACIONAL ELECTORAL  
CREDENCIAL PARA VOTAR



NOMBRE  
CHIN  
CANCHE  
AARON ALEXANDER

SEXO H

DOMICILIO  
C 153 POR 50 Y 58 A 276  
FRACC BRISAS DE SAN JOSE 97299  
MERIDA, YUC.

CLAVE DE ELECTOR CHCNAR99120731H700

CURP  
CICA991207HYNHNR06

AÑO DE REGISTRO  
2017 03

FECHA DE NACIMIENTO  
07/12/1999

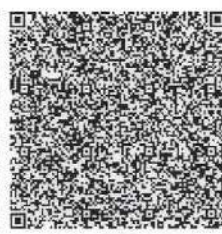
SECCIÓN  
0581

VIGENCIA  
2023 - 2033



ELABORADO POR: [Logo]  
DISEÑO Y EXTENSIONES: [Logo]

INE



A009567



EUSEBIO J. MOLINA  
SECRETARIO EJECUTIVO DEL  
INSTITUTO NACIONAL ELECTORAL

IDMEX2416553446<<0581119500127  
9912072H3312315MEX<03<<01390<4  
CHIN<CANCHE<<AARON<ALEXANDER<<

 MÉXICO INSTITUTO NACIONAL ELECTORAL  
CREDENCIAL PARA VOTAR

 NOMBRE  
SOLIS  
CAMACHO  
BILLY HARRY SEXO H

DOMICILIO  
C 42 POR 25 Y 27 116 CASA 208  
PRIV IDILIA 97345  
CONKAL, YUC.

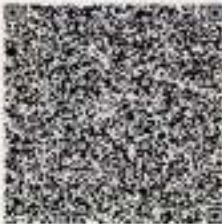
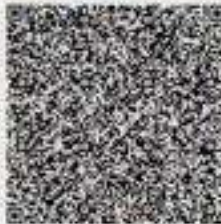
CLAVE DE ELECTOR SLCMBL88042031H900

CURP SOC880420HYNLML01 AÑO DE REGISTRO 2005 02

FECHA DE NACIMIENTO 20/04/1988 SECCIÓN 1136 VIGENCIA 2023 - 2033





IDMEX2476192827<<1136073925619  
8804204H3312315MEX<02<<17978<3  
SOLIS<CAMACHO<<BILLY<HARRY<<<<

 MÉXICO INSTITUTO NACIONAL ELECTORAL  
CREDENCIAL PARA VOTAR



NOMBRE  
RODRIGUEZ  
VARGAS  
ROBERTO  
DOMICILIO  
C 21 X 12 195  
FRACC SAN MIGUEL 97140  
MERIDA YUC.

FECHA DE NACIMIENTO  
18/11/1988  
SEXO  
H

CLAVE DE ELECTOR RDVVRB88111631H700  
CURP ROVR881116HYNDRB07 AÑO DE REGISTRO 2006 01  
ESTADO 31 MUNICIPIO 050 SECCIÓN 0321  
LOCALIDAD 0001 EMISIÓN 2015 VIGENCIA 2025

INE  
COMISIÓN REGISTRAL  
POCOP, P.O. BOX 10000, CDMX  
INSTITUTO NACIONAL ELECTORAL

IDMEX1368526627<<0321075857610  
8811167H2512314MEX<01<<21493<1  
RODRIGUEZ<VARGAS<<ROBERTO<<<<<



Comisión Federal de Electricidad®

Comisión Federal de Electricidad  
Av. Paseo de la Reforma 164, Col. Juárez,  
Alcaldía: Cuauhtémoc, Código Postal: 06600,  
Ciudad de México. RFC: CFE370814Q10

## ALCOCER GOMBOA OMAR

23 346 34 36 MONTECARLO  
34 36  
MONTECARLO FC.P.97130  
MERIDA, YUC.

**NO. DE SERVICIO:** 771051100596

**RMU:** 97130 05-11-03 XAXX-010101 001 CFE

**CUENTA:** 17DW01B011763085

**LÍMITE DE PAGO:** 27 JUL 25

**CORTE A PARTIR:** 28 JUL 25

**TARIFA:** 1 DNO. **MEDIDOR:** 04N41M

**MULTIPLICADOR:** 1

**NO HILOS:** 2

**PERIODO FACTURADO:** 13 MAY 25-11 JUL 25

TOTAL A PAGAR:

# \$8,441

(OCHO MIL CUATROCIENTOS CUARENTA Y UN PESOS M.N.)



| Concepto                                                            | Lectura actual                             |                                   | Lectura anterior                           |                                   | Total periodo | Precio (MXN) | Subtotal (MXN)  |
|---------------------------------------------------------------------|--------------------------------------------|-----------------------------------|--------------------------------------------|-----------------------------------|---------------|--------------|-----------------|
|                                                                     | Medida <input checked="" type="checkbox"/> | Estimada <input type="checkbox"/> | Medida <input checked="" type="checkbox"/> | Estimada <input type="checkbox"/> |               |              |                 |
| <b>Energía (kWh)</b>                                                | 72,472                                     |                                   | 69,781                                     |                                   | 2,691         |              |                 |
| Básico                                                              |                                            |                                   |                                            |                                   | 350           | 0.965        | 337.75          |
| Intermedio1                                                         |                                            |                                   |                                            |                                   | 450           | 1.119        | 503.55          |
| Intermedio2                                                         |                                            |                                   |                                            |                                   | 400           | 1.440        | 576.00          |
| Excedente                                                           |                                            |                                   |                                            |                                   | 1,491         | 3.847        | 5,735.87        |
| Este gráfico refleja tu nivel de consumo. A menor uso, mayor apoyo. |                                            |                                   |                                            |                                   |               |              | <b>Subtotal</b> |

| Costos de la energía en el Mercado Eléctrico Mayorista |       |       |          |               |
|--------------------------------------------------------|-------|-------|----------|---------------|
| Concepto                                               | \$    | \$/kW | \$/kWh   | Importe (MXN) |
| Suministro                                             | 84.32 | 0.00  | 0.00     | 84.32         |
| Distribución                                           | 0.00  | 0.00  | 2,370.77 | 2,370.77      |
| Transmisión                                            | 0.00  | 0.00  | 486.80   | 486.80        |
| CENACE                                                 | 0.00  | 0.00  | 17.49    | 17.49         |
| Energía                                                | 0.00  | 0.00  | 2,384.23 | 2,384.23      |
| Capacidad                                              | 0.00  | 0.00  | 1,455.83 | 1,455.83      |
| SCnMEM(1)                                              | 0.00  | 0.00  | 16.68    | 16.68         |

| Desglose del importe a pagar |                 |
|------------------------------|-----------------|
| Concepto                     | Importe (MXN)   |
| Energía                      | 7,153.18        |
| IVA 16%                      | 1,144.51        |
| Fac. del Periodo             | 8,297.69        |
| DAP((2))                     | 144.00          |
| Adeudo Anterior              | 5,426.20        |
| Su Pago                      | -5,426.00       |
| <b>Total</b>                 | <b>8,441.89</b> |

Fecha, hora y lugar de impresión: 18/08/2025 11:36:14hrs Calle 59 x 58 y 60 No 488 Centro Merida Merida Yucatan Mexico 97000

(1) SCnMEM: Costos relacionados con los servicios del Mercado. (2) DAP: Derecho al Alumbrado Público. (3) Cargos o créditos: Diversos conceptos que se pueden incluir en el aviso recibo relacionados con el suministro.



97130 05-11-03 XAXX-010101 001 CFE  
01 771051100596 250727 000008441 7

17DW01B011763085 Repartir

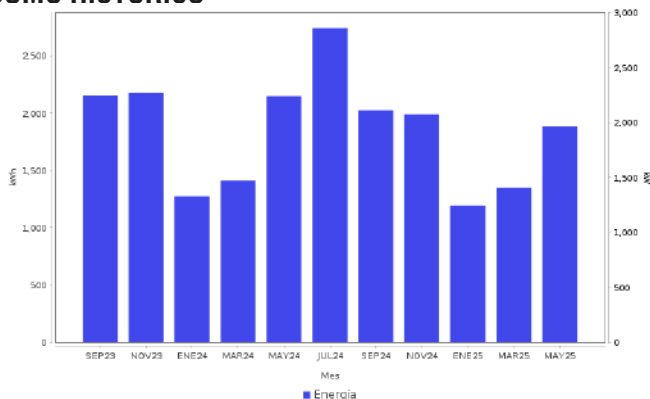


# \$8,441

(OCHO MIL CUATROCIENTOS CUARENTA Y UN PESOS M.N.)

## CONSUMO HISTÓRICO

| Período                    | kWh  | Importe    | Pagos      | Pendientes de Pago |
|----------------------------|------|------------|------------|--------------------|
| del 11 MAR 25 al 13 MAY 25 | 1878 | \$5,426.00 | \$5,426.00 |                    |
| del 10 ENE 25 al 11 MAR 25 | 1343 | \$4,852.00 | \$4,852.00 |                    |
| del 11 NOV 24 al 10 ENE 25 | 1188 | \$4,141.00 | \$4,141.00 |                    |
| del 09 SEP 24 al 11 NOV 24 | 1984 | \$6,647.00 | \$6,647.00 |                    |
| del 11 JUL 24 al 09 SEP 24 | 2022 | \$5,243.00 | \$5,243.00 |                    |
| del 13 MAY 24 al 11 JUL 24 | 2739 | \$8,272.00 | \$8,272.00 |                    |
| del 11 MAR 24 al 13 MAY 24 | 2147 | \$6,307.00 | \$6,307.00 |                    |
| del 11 ENE 24 al 11 MAR 24 | 1409 | \$4,909.00 | \$4,909.00 |                    |
| del 10 NOV 23 al 11 ENE 24 | 1270 | \$4,293.00 | \$4,293.00 |                    |
| del 11 SEP 23 al 10 NOV 23 | 2175 | \$1,727.00 | \$1,727.00 |                    |
| del 12 JUL 23 al 11 SEP 23 | 2151 | \$5,496.00 | \$5,496.00 |                    |
|                            |      |            |            |                    |
|                            |      |            |            |                    |
|                            |      |            |            |                    |



### AHORRO DE ENERGÍA INSTALACIÓN ELÉCTRICA

Si los interruptores de seguridad están desgastados, reemplázalos; si los cables de la **caja de fusibles** se calientan, es necesario cambiarlos por otros del calibre adecuado.

**Datos Fiscales del Receptor Cadena Original Este documento es una representación impresa de un CFDI PPD**  
 RFC: RFC Razón Social: Régimen Fiscal: 000 Uso CFDI: CP: 00000 AC Folio: 000065136152 Folio Fiscal: N. Certificado del SAT: No. certificado del CSD: Fecha y hora de certificación: Unidad de medida: kWh  
 |||||



Instancias y recursos a disposición de los usuarios para atender quejas:



**¡AVISO IMPORTANTE!**

Tu comprobante fiscal es emitido por Comisión Federal de Electricidad con el RFC CFE 370814QI0. La suma de cada pequeña acción genera un gran cambio, cuidemos el medio ambiente. Nuestro compromiso es seguir conectados contigo.

Corte a partir del 28 JUL 25.

Le invitamos a que se registre en nuestro portal y disfrute de la comodidad de nuestros servicios en línea.

Conoce los servicios de los diferentes suministradores: <http://usuariocalificado.cre.gob.mx/UsuarioCalificado/ListadoSuministrador>

**TAMBIÉN PUEDES PAGAR TU RECIBO EN:**



Banco del Bienestar, Bancomer, Inbursa, Santander, Banamex, Banjerito, Scotiabank, HSBC, Citibanco, Afirme, Multiva, Banco del Bajío, Banco Azteca, BanCoppel.  
 Son más de 100,000 establecimientos autorizados, consulta el portal [cfe.mx](http://cfe.mx) en la sección medios de pago.



NOMBRE: ALCOCER GAMBOA OMAR

RFC: AOGO730729B38

DIRECCIÓN: : CALLE 23 NO.346 X 34 Y 36, COL. MONTECARLO, MÉRIDA, YUCATÁN. C.P. 97130

Harvest the Sunshine

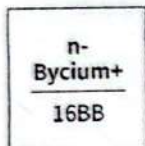
630W



JA SOLAR

## JAM66D45 LB n-type Double Glass Bifacial Modules

### Premium Cells



MBB Half-Cell  
Technology

26%

Up To

Cell Conversion  
Efficiency

### Premium Modules



Higher power  
generation better LCOE



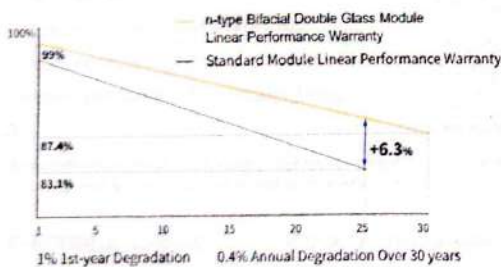
LID n-type with very  
Lower LID



Better Temperature  
Coefficient



Better low irradiance  
response

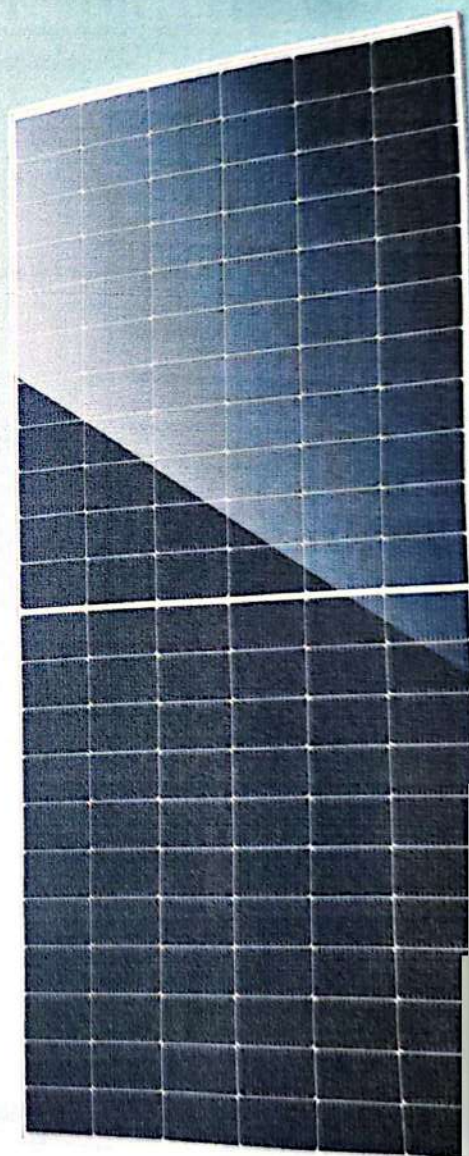
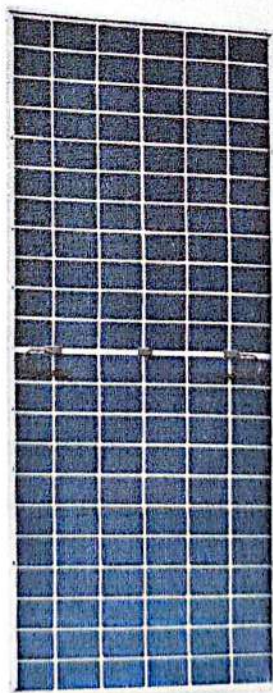


12 12-year product  
warranty

30 30-year linear power  
output warranty

### Comprehensive Certificates

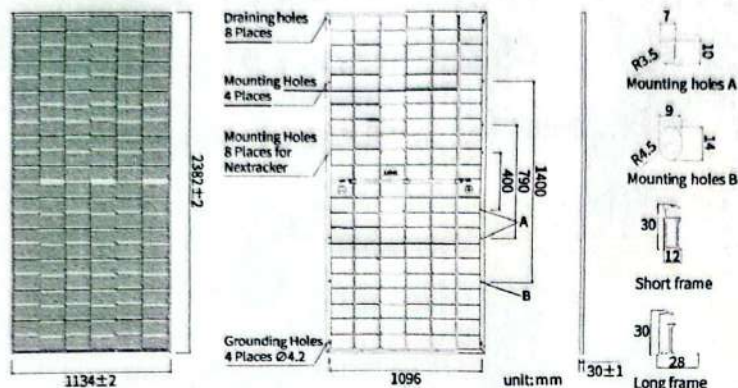
- IEC 61215, IEC 61730, UL 61215, UL 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems
- IEC 62941: 2019 Terrestrial photovoltaic (PV) modules - Quality system for PV module manufacturing



DEEP BLUE 4.0

# JAM66D45 LB

n-type Double Glass Bifacial Modules



## MECHANICAL PARAMETERS

|                          |                                                                                     |
|--------------------------|-------------------------------------------------------------------------------------|
| Cell                     | Mono                                                                                |
| Weight                   | 33.1kg                                                                              |
| Dimensions               | 2382±2mm×1134±2mm×30±1mm                                                            |
| Cable Cross Section Size | 4mm <sup>2</sup> (IEC), 12 AWG(UL)                                                  |
| No. of cells             | 132(6×22)                                                                           |
| Junction Box             | IP68, 3diodes                                                                       |
| Connector                | QC 4.10-351/ MC4-E VO2A                                                             |
| Cable Length             | Portrait: 300mm(+)/400mm(-)<br>(Including Connector) Landscape: 1500mm(+)/1500mm(-) |
| Front Glass/Back Glass   | 2.0mm/2.0mm                                                                         |
| Packaging Configuration  | 36pcs/ Pallet, 720pcs/40HQ Container                                                |

Remark: customized frame color and cable length available upon request

## ELECTRICAL PARAMETERS AT STC

| TYPE                                                            | JAM66D45<br>-605/LB                                             | JAM66D45<br>-610/LB | JAM66D45<br>-615/LB | JAM66D45<br>-620/LB | JAM66D45<br>-625/LB | JAM66D45<br>-630/LB |
|-----------------------------------------------------------------|-----------------------------------------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Rated Maximum Power(P <sub>max</sub> ) [W]                      | 605                                                             | 610                 | 615                 | 620                 | 625                 | 630                 |
| Open Circuit Voltage (V <sub>oc</sub> ) [V]                     | 47.90                                                           | 48.10               | 48.30               | 48.50               | 48.70               | 48.90               |
| Maximum Power Voltage(V <sub>mp</sub> ) [V]                     | 39.60                                                           | 39.77               | 39.96               | 40.21               | 40.45               | 40.70               |
| Short Circuit Current(I <sub>sc</sub> ) [A]                     | 16.00                                                           | 16.05               | 16.10               | 16.13               | 16.15               | 16.18               |
| Maximum Power Current(I <sub>mp</sub> ) [A]                     | 15.28                                                           | 15.34               | 15.39               | 15.42               | 15.45               | 15.48               |
| Module Efficiency [%]                                           | 22.4                                                            | 22.6                | 22.8                | 23.0                | 23.1                | 23.3                |
| Power Tolerance                                                 | 0~+3%                                                           |                     |                     |                     |                     |                     |
| Temperature Coefficient of I <sub>sc</sub> (α <sub>Isc</sub> )  | +0.045%/°C                                                      |                     |                     |                     |                     |                     |
| Temperature Coefficient of V <sub>oc</sub> (β <sub>Voc</sub> )  | -0.250%/°C                                                      |                     |                     |                     |                     |                     |
| Temperature Coefficient of P <sub>max</sub> (γ <sub>Pmp</sub> ) | -0.290%/°C                                                      |                     |                     |                     |                     |                     |
| STC                                                             | Irradiance 1000W/m <sup>2</sup> , cell temperature 25°C, AM1.5G |                     |                     |                     |                     |                     |

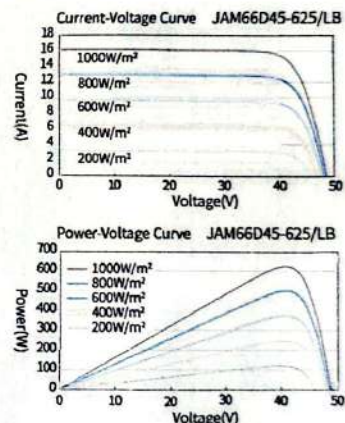
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

## ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

| TYPE                                        | JAM66D45<br>-605/LB | JAM66D45<br>-610/LB | JAM66D45<br>-615/LB | JAM66D45<br>-620/LB | JAM66D45<br>-625/LB | JAM66D45<br>-630/LB |
|---------------------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Rated Max Power(P <sub>max</sub> ) [W]      | 653                 | 659                 | 664                 | 670                 | 675                 | 680                 |
| Open Circuit Voltage(V <sub>oc</sub> ) [V]  | 47.90               | 48.10               | 48.30               | 48.50               | 48.70               | 48.90               |
| Max Power Voltage(V <sub>mp</sub> ) [V]     | 39.60               | 39.77               | 39.96               | 40.21               | 40.45               | 40.70               |
| Short Circuit Current(I <sub>sc</sub> ) [A] | 17.28               | 17.33               | 17.39               | 17.42               | 17.44               | 17.47               |
| Max Power Current(I <sub>mp</sub> ) [A]     | 16.50               | 16.56               | 16.62               | 16.65               | 16.69               | 16.72               |
| Irradiation Ratio (rear/front)              | 10%                 |                     |                     |                     |                     |                     |

\* For Nextacker installations, maximum static load please take compatibility approve letter between JA Solar and Nextacker for reference.

## CHARACTERISTICS



## OPERATING CONDITIONS

|                             |                                 |
|-----------------------------|---------------------------------|
| Maximum System Voltage      | 1500V DC                        |
| Operating Temperature       | -40°C~+85°C                     |
| Maximum Series Fuse Rating  | 35A                             |
| Maximum Static Load, Front* | 5400Pa(112 lb/ft <sup>2</sup> ) |
| Maximum Static Load, Back*  | 2400Pa(50 lb/ft <sup>2</sup> )  |
| NOCT                        | 45±2°C                          |
| Bifaciality                 | 80%±5%                          |
| Safety Class                | Class II                        |
| Fire Performance            | UL Type 29/Class C              |

JA SOLAR

Headquarters

No. 8 Building, Nuode Center, No.1 Courtyard, East Auto Museum Road,  
Fengtai District, Beijing  
Tel: +86 10 6361 1888 Fax: +86 10 6361 1999  
E-mail: sales@jasolar.com marketing@jasolar.com www.jasolar.com

Specifications subject to technical changes and tests.  
JA Solar reserves the right of final interpretation.

Version No.: Global-EN-20250417A

# MIN 2500~6000 TL-X2

- Eficiencia máxima del 98,4
- MPPT duales
- SPD de tipo II en el lado de CD
- Tecla táctil y pantalla OLED
- Corriente de cadena de hasta 16 A



**GROWATT**

[www.ginverter.com](http://www.ginverter.com)



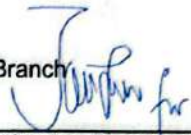
P O W E R  
- I N G O  
T O M O -  
R R O W O

| Hoja de datos                                      | MIN 2500TL-X2 | MIN 3000TL-X2 | MIN 3600TL-X2 | MIN 4200TL-X2                   | MIN 4600TL-X2 | MIN 5000TL-X2 | MIN 6000TL-X2 |
|----------------------------------------------------|---------------|---------------|---------------|---------------------------------|---------------|---------------|---------------|
| <b>Datos de entrada (CD)</b>                       |               |               |               |                                 |               |               |               |
| Máxima potencia PV recomendada                     | 3750W         | 4500W         | 5250W         | 6300W                           | 6900W         | 7500W         | 9000W         |
| Máximo voltaje CD                                  | 500V          | 500V          | 550V          | 550V                            | 550V          | 550V          | 550V          |
| Voltaje de arranque                                |               |               |               | 50V                             |               |               |               |
| Voltaje nominal                                    |               |               |               | 360V                            |               |               |               |
| Rango de voltaje de MPPT                           | 40V-500V      | 40V-500V      | 40V-550V      | 40V-550V                        | 40V-550V      | 40V-550V      | 40V-550V      |
| Número de MPPTs                                    |               |               |               | 2                               |               |               |               |
| Cadenas por MPPT                                   |               |               |               | 1                               |               |               |               |
| Máxima corriente de entrada por MPPT               |               |               |               | 16A                             |               |               |               |
| Corriente máx. de cortocircuito por MPPT           |               |               |               | 24A                             |               |               |               |
| <b>Datos de salida (CA)</b>                        |               |               |               |                                 |               |               |               |
| Potencia nominal de CA                             | 2500W         | 3000W         | 3600W         | 4200W                           | 4600W         | 5000W         | 6000W         |
| Potencia aparente máxima                           | 2500VA        | 3000VA        | 3600VA        | 4200VA                          | 4600VA        | 5000VA        | 6000VA        |
| Voltaje nominal CA (Rango*)                        |               |               |               | 230V (160-300V)                 |               |               |               |
| Frecuencia de red CA (Rango*)                      |               |               |               | 50/60 Hz (45-55Hz/54-65 Hz)     |               |               |               |
| Corriente máxima de salida                         | 11.3A         | 13.6A         | 16A           | 19A                             | 20.9A         | 22.7A         | 27.2A         |
| Factor de potencia ajustable                       |               |               |               | 0.8 de adelanto...0.8 de atraso |               |               |               |
| Distorsión armónica total                          |               |               |               | <3%                             |               |               |               |
| Tipo de conexión CA                                |               |               |               | Monofásico                      |               |               |               |
| <b>Eficiencia</b>                                  |               |               |               |                                 |               |               |               |
| Máxima eficiencia                                  | 98.2%         | 98.2%         | 98.2%         | 98.4%                           | 98.4%         | 98.4%         | 98.4%         |
| Eficiencia europea                                 | 97.1%         | 97.1%         | 97.2%         | 97.5%                           | 97.5%         | 97.5%         | 97.5%         |
| Eficiencia de MPPT                                 |               |               |               | 99.9%                           |               |               |               |
| <b>Dispositivos de protección</b>                  |               |               |               |                                 |               |               |               |
| Protección de polaridad inversa CD                 |               |               |               | Si                              |               |               |               |
| Interruptor CD                                     |               |               |               | Si                              |               |               |               |
| Protección contra sobretensión CD                  |               |               |               | Clase II                        |               |               |               |
| Protección de resistencia de aislamiento           |               |               |               | Si                              |               |               |               |
| Protección contra sobretensión CA                  |               |               |               | Clase III                       |               |               |               |
| Protección contra cortocircuitos en CA             |               |               |               | Si                              |               |               |               |
| Monitoreo de red                                   |               |               |               | Si                              |               |               |               |
| Protección anti-Isola                              |               |               |               | Si                              |               |               |               |
| Monitoreo de corriente residual                    |               |               |               | Si                              |               |               |               |
| AFCI                                               |               |               |               | Si                              |               |               |               |
| <b>Datos generales</b>                             |               |               |               |                                 |               |               |               |
| Dimensiones                                        |               |               |               | 375/350/158mm                   |               |               |               |
| Peso                                               |               |               |               | 10.8kg                          |               |               |               |
| Rango de temperatura de operación                  |               |               |               | -30°C ... +60°C                 |               |               |               |
| Autoconsumo (noche)                                |               |               |               | <1W                             |               |               |               |
| Topología                                          |               |               |               | Sin transformador               |               |               |               |
| Enfriamiento                                       |               |               |               | Convección natural              |               |               |               |
| Grado de protección                                |               |               |               | IP66                            |               |               |               |
| Humedad relativa                                   |               |               |               | 0-100%                          |               |               |               |
| Altitud                                            |               |               |               | 4000m                           |               |               |               |
| Conexión CD                                        |               |               |               | H4/MC4(opcional)                |               |               |               |
| Conexión CA                                        |               |               |               | Conector                        |               |               |               |
| Pantalla                                           |               |               |               | OLED + LED                      |               |               |               |
| Comunicación: RS485 / USB / WiFi / GPRS / 4G / LAN |               |               |               | Si/Si/Opc/Opc/Opc/Opc           |               |               |               |
| Garantía: 5 años / 10 años                         |               |               |               | Si/Opc                          |               |               |               |

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This authorizes the application of the Certification Mark(s) shown below to the models described in the Product(s) Covered section when made in accordance with the conditions set forth in the Certification Agreement and Listing Report. This authorization also applies to multiple listee model(s) identified on the correlation page of the Listing Report.

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|                                        |                                                                                                   |                       |                                                                                                                                     |
|----------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applicant:</b>                      | Shenzhen Growatt New Energy Co., Ltd.                                                             | <b>Manufacturer:</b>  | Guangdong Growatt New Energy Co., Ltd                                                                                               |
| <b>Address:</b>                        | 4-13/F, Building A, Sino-German(Europe) Industrial Park, Hangcheng Ave, BAO'AN DISTRICT, Shenzhen | <b>Address:</b>       | Growatt Industrial Park, No.17 Pingheng Road Pingtan Town, Huiyang District, Huizhou, Guangdong                                     |
| <b>Country:</b>                        | CHINA                                                                                             | <b>Country:</b>       | CHINA                                                                                                                               |
| <b>Party Authorized To Apply Mark:</b> | Same as Manufacturer                                                                              |                       |                                                                                                                                     |
| <b>Report Issuing Office:</b>          | Intertek Testing Services Shenzhen Limited Guangzhou Branch                                       |                       |                                                                                                                                     |
| <b>Control Number:</b>                 | <u>4003184</u>                                                                                    | <b>Authorized by:</b> | <br>for L. Matthew Snyder, Certification Manager |



This document supersedes all previous Authorizations to Mark for the noted Report Number.

This Authorization to Mark is for the exclusive use of Intertek's Client and is provided pursuant to the Certification agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Authorization to Mark. Only the Client is authorized to permit copying or distribution of this Authorization to Mark and then only in its entirety. Use of Intertek's Certification mark is restricted to the conditions laid out in the agreement and in this Authorization to Mark. Any further use of the Intertek name for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. Initial Factory Assessments and Follow up Services are for the purpose of assuring appropriate usage of the Certification mark in accordance with the agreement, they are not for the purposes of production quality control and do not relieve the Client of their obligations in this respect.

Intertek Testing Services NA Inc.  
545 East Algonquin Road, Arlington Heights, IL 60005  
Telephone 800-345-3851 or 847-439-5667 Fax 312-283-1672

|                                                                                                                                              |                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inverters, Converters, Controllers and Interconnection System Equipment for use with Distributed Energy Resources [UL 1741:2021 Ed.3]        |                                                                                                                                                                                                                   |
| Interconnecting Distributed Resources With Electric Power Systems (R2008) [IEEE 1547:2003]                                                   |                                                                                                                                                                                                                   |
| <b>Standard(s):</b>                                                                                                                          | Amendment 1 to IEEE 1547 - Interconnecting Distributed Resources With Electric Power Systems [IEEE 1547a:2014]                                                                                                    |
| IEEE Standard Conformance Test Procedures For Equipment Interconnecting Distributed Resources With Electric Power Systems [IEEE 1547.1:2005] |                                                                                                                                                                                                                   |
| <b>Product:</b>                                                                                                                              | PV Grid Inverter                                                                                                                                                                                                  |
| <b>Brand Name:</b>                                                                                                                           | GROWATT                                                                                                                                                                                                           |
| <b>Models:</b>                                                                                                                               | MIN 2500TL-X, MIN 3000TL-X, MIN 3600TL-X, MIN 4200TL-X, MIN 4600TL-X,<br>MIN 5000TL-X, MIN 6000TL-X<br>MIN 2500TL-X2, MIN 3000TL-X2, MIN 3600TL-X2, MIN 4200TL-X2, MIN 4600TL-X2,<br>MIN 5000TL-X2, MIN 6000TL-X2 |

# Certificate of Conformity

Certificate Number: 181016146GZU-001

On the basis of the tests undertaken, the sample<s> of the below product have been found to comply with the requirements of the referenced specification<s>/standard<s> at the time the tests were carried out. This certificate is part of the full test report<s> and should be read in conjunction with it ;

|                                         |                                                                                                                                                                                                                               |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Applicant Name & Address:               | Shenzhen Growatt New Energy Technology Co.,Ltd<br>1st East & 3rd Floor of Building A, Building B, Jiayu Industrial Park, #28,<br>GuangHui Road, LongTeng Community, Shiyan Street, Baoan District,<br>Shenzhen, P.R.China     |
| Product Description:                    | PV Grid inverter                                                                                                                                                                                                              |
| Ratings & Principle<br>Characteristics: | See Annex to Test Certificate of Conformity                                                                                                                                                                                   |
| Models:                                 | MIN 2500TL-X, MIN 3000TL-X, MIN 3600TL-X, MIN 4200TL-X, MIN 4600TL-X,<br>MIN 5000TL-X, MIN 6000TL-X<br>MIN 2500TL-XH, MIN 3000TL-XH, MIN 3600TL-XH, MIN 4200TL-XH,<br>MIN 4600TL-XH, MIN 5000TL-XH, MIN 6000TL-XH             |
| Relevant Standards                      | IEC 61727 2nd ed:2004, Photovoltaic (PV) systems – Characteristics of the<br>Utility interface<br>IEC 62116 2nd ed.:2014, Test procedure of islanding prevention measures for<br>Utility-interconnected photovoltaic inverter |
| Certificate Issuing Office:             | Intertek Testing Services Shenzhen Ltd. Guangzhou Branch<br>Block E, No.7-2 Guang Dong Software Science Park, Caipin Road, Guangzhou<br>Science City, GETDD, Guangzhou, China                                                 |
| Date of Tests:                          | 16 Oct 2018 to 21 Feb 2019                                                                                                                                                                                                    |
| Test Report Number(s):                  | 181016146GZU-001, 181016146GZU-002                                                                                                                                                                                            |

Additional information in Appendix.



## Signature

**Name:** Grady Ye  
**Position:** Manager  
**Date:** 26 Feb 2019



## APPENDIX: Certificate of Conformity

This is an Annex to Certificate of Conformity with Certificate/Report Number(s): 181016146GZU-001;

Ratings and  
principal  
characteristics

| Model                         | MIN 2500TL-X             | MIN 3000TL-X | MIN 3600TL-X | MIN 4200TL-X |
|-------------------------------|--------------------------|--------------|--------------|--------------|
| Max.PV voltage                | 500 d.c.V                |              |              | 550 d.c.V    |
| PV voltage range              | 80-500 d.c.V             |              |              | 80-550 d.c.V |
| PV Isc                        | 16 d.c.A*2               |              |              |              |
| Max.input current             | 12.5 d.c.A*2             |              |              |              |
| Max.output power              | 2500W                    | 3000W        | 3600W        | 4200W        |
| Max.apparent power            | 2500VA                   | 3000VA       | 3600VA       | 4200VA       |
| Nominal output voltage        | 230 a.c.V                |              |              |              |
| Max.output current            | 11.3 a.c.A               | 13.6 a.c.A   | 16 a.c.A     | 19 a.c.A     |
| Nominal output Frequency      | 50/60Hz                  |              |              |              |
| Power factor range            | 0.8Leading – 0.8 lagging |              |              |              |
| Safety level                  | Class I                  |              |              |              |
| Ingress Protection            | IP 65                    |              |              |              |
| Operation Ambient Temperature | -25°C - +60°C            |              |              |              |
| Model                         | MIN 4600TL-X             | MIN 5000TL-X | MIN 6000TL-X |              |
| Max.PV voltage                | 550 d.c.V                |              |              |              |
| PV voltage range              | 80-550 d.c.V             |              |              |              |
| PV Isc                        | 16 d.c.A*2               |              |              |              |
| Max.input current             | 12.5 d.c.A*2             |              |              |              |
| Max.output power              | 4600W                    | 5000W        | 6000W        |              |
| Max.apparent power            | 4600VA                   | 5000VA       | 6000VA       |              |
| Nominal output voltage        | 230 a.c.V                |              |              |              |
| Max.output current            | 20.9 a.c.A               | 22.7 a.c.A   | 27.2 a.c.A   |              |

## APPENDIX: Certificate of Conformity

This is an Annex to Certificate of Conformity with Certificate/Report Number(s): 181016146GZU-001;

Ratings and  
principal  
characteristics

|                               |                          |               |               |               |
|-------------------------------|--------------------------|---------------|---------------|---------------|
| Nominal output Frequency      | 50/60Hz                  |               |               |               |
| Power factor range            | 0.8Leading – 0.8 lagging |               |               |               |
| Safety level                  | Class I                  |               |               |               |
| Ingress Protection            | IP 65                    |               |               |               |
| Operation Ambient Temperature | -25°C - +60°C            |               |               |               |
| Model                         | MIN 2500TL-XH            | MIN 3000TL-XH | MIN 3600TL-XH | MIN 4200TL-XH |
| Max.PV voltage                | 500 d.c.V                |               | 550 d.c.V     |               |
| PV voltage range              | 80-500 d.c.V             |               | 80-550 d.c.V  |               |
| PV Isc                        | 16 d.c.A*2               |               |               |               |
| Max.input current             | 12.5 d.c.A*2             |               |               |               |
| Max. DC voltage               | 480 d.c.V                |               |               |               |
| DC voltage range              | 350-480 d.c.V            |               |               |               |
| Max. DC current               | 10 d.c.A                 |               |               |               |
| Max.output power              | 2500W                    | 3000W         | 3600W         | 4200W         |
| Max.apparent power            | 2500VA                   | 3000VA        | 3600VA        | 4200VA        |
| Nominal output voltage        | 230 a.c.V                |               |               |               |
| Max.output current            | 11.3 a.c.A               | 13.6 a.c.A    | 16 a.c.A      | 19 a.c.A      |
| Nominal output Frequency      | 50/60Hz                  |               |               |               |
| Power factor range            | 0.8Leading – 0.8 lagging |               |               |               |
| Safety level                  | Class I                  |               |               |               |
| Ingress Protection            | IP 65                    |               |               |               |
| Operation Ambient Temperature | -25°C - +60°C            |               |               |               |

## APPENDIX: Certificate of Conformity

This is an Annex to Certificate of Conformity with Certificate/Report Number(s): 181016146GZU-001;

Ratings and  
principal  
characteristics

| Model                         | MIN 4600TL-XH                                          | MIN 5000TL-XH | MIN 6000TL-XH |
|-------------------------------|--------------------------------------------------------|---------------|---------------|
| Max.PV voltage                | 550 d.c.V                                              |               |               |
| PV voltage range              | 80-550 d.c.V                                           |               |               |
| PV Isc                        | 16 d.c.A*2                                             |               |               |
| Max.input current             | 12.5 d.c.A*2                                           |               |               |
| Max. DC voltage               | 480 d.c.V                                              |               |               |
| DC voltage range              | 350-480 d.c.V                                          |               |               |
| Max. DC current               | 10 d.c.A                                               |               |               |
| Max.output power              | 4600W                                                  | 5000W         | 6000W         |
| Max.apparent power            | 4600VA                                                 | 5000VA        | 6000VA        |
| Nominal output voltage        | 230 a.c.V                                              |               |               |
| Max.output current            | 20.9 a.c.A                                             | 22.7 a.c.A    | 27.2 a.c.A    |
| Nominal output Frequency      | 50/60Hz                                                |               |               |
| Power factor range            | 0.8Leading – 0.8 lagging                               |               |               |
| Safety level                  | Class I                                                |               |               |
| Ingress Protection            | IP 65                                                  |               |               |
| Operation Ambient Temperature | -25°C - +60°C                                          |               |               |
| Software version              | AL1.0 for MIN TL-XH series, AK 1.0 for MIN TL-X series |               |               |

## UBICACIÓN DEL PREDIO



**COORDENADAS:** 21.029020, -89.584104

**DIRECCIÓN:**

CALLE 23 NO.346 X 34 Y 36, COL.  
MONTECARLO, MÉRIDA, YUCATÁN. C.P. 97130

punto green

# FACHADA PREDIO



**COORDENADAS:** 21.029020, -89.584104  
**DIRECCIÓN:**  
CALLE 23 NO.346 X 34 Y 36, COL.  
MONTECARLO, MÉRIDA, YUCATÁN. C.P. 97130

**punto gr<sup>o</sup>in**

# MEDIDOR



**COORDENADAS:** 21.029020, -89.584104  
**DIRECCIÓN:**  
CALLE 23 NO.346 X 34 Y 36, COL.  
MONTECARLO, MÉRIDA, YUCATÁN. C.P. 97130

**punto gr<sup>o</sup>in**

# INVERSOR



**COORDENADAS:** 21.029020, -89.584104  
**DIRECCIÓN:**  
CALLE 23 NO.346 X 34 Y 36, COL.  
MONTECARLO, MÉRIDA, YUCATÁN. C.P. 97130

punto gr<sup>o</sup>in

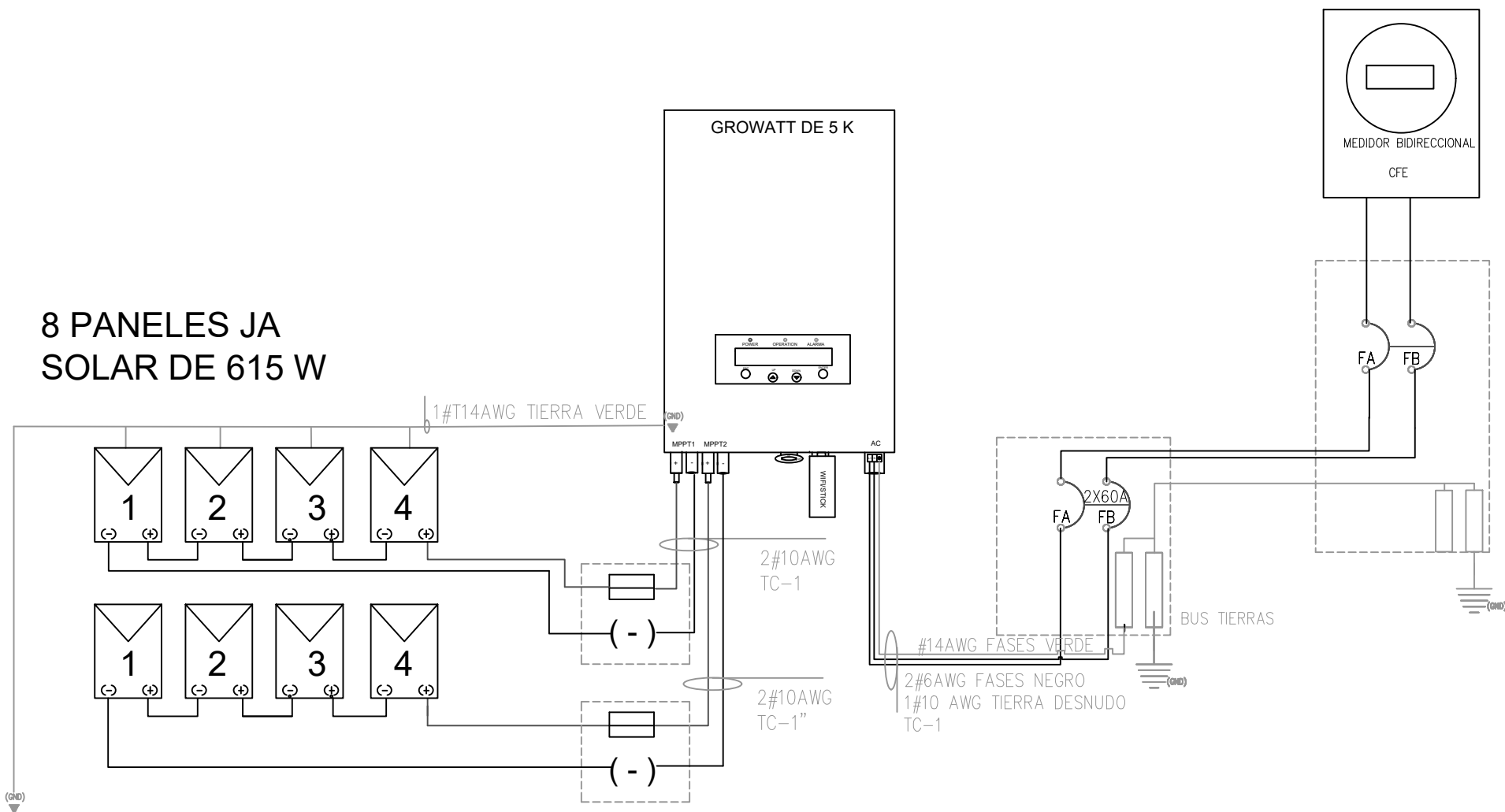
# PANELES



**COORDENADAS:** 21.029020, -89.584104  
**DIRECCIÓN:**  
CALLE 23 NO.346 X 34 Y 36, COL.  
MONTECARLO, MÉRIDA, YUCATÁN. C.P. 97130

**punto gr<sup>o</sup>in**

## 8 PANELES JA SOLAR DE 615 W



## MATERIALES

| CANTIDAD | PARTES                                                       |
|----------|--------------------------------------------------------------|
| 2        | NÚMERO DE STRINGS                                            |
| 4-4      | NÚMERO DE PANELES POR STRINGS                                |
| 10       | CALIBRE DE CABLE FV DE PANELES HASTA EL INVERSOR (DC)        |
| 12       | CALIBRE DE CABLE DEL INVERSOR AL PUNTO DE INTERCONEXIÓN (AC) |
| 60       | CAPACIDAD DE INTERRUPTOR (ES) DE CFV                         |

DIAGRAMA ELECTRICO FOTOVOLTAICO CON  
INVERSOR CENTRAL

CLIENTE: CLAUDIA ARJONA

FECHA:  
18/08/2025

MODELO:  
INTERCONEXIÓN

ELABORO: ALEXANDER CANCHE

punto gr<sup>o</sup>n