

5125101011152470

Fecha _____

Número de Solicitud _____

I. Datos del Solicitante

Nombre, Denominación o Razón Social ARROYO FERNANDEZ DANIEL			
Domicilio Calle PLAN DE SAN LUIS	Número exterior 112	Número Interior N/A	Código Postal 71233
Colonia/Población REFORMA AGRARIA	Delegación/Municipio XOXOCOTLAN	Estado OAXACA	
Teléfono 9511792084	Correo Electrónico supervisiontps@gmail.com	Fax _____	

II. Datos de Contacto

Nombre EUNICE MIJANGOS ORTIZ		Puesto GESTOR	
Domicilio Calle TEPOSCOLULA	Número exterior #300	Número Interior S/N	Código Postal 68144
Colonia/Población ESTADO DE OAXACA	Delegación/Municipio OAXACA DE JUAREZ	Estado OAXACA	
Teléfono (951) 2509095	Correo Electrónico agenciadeenergiadp@gmail.com	Fax _____	

III. Datos de la Solicitud

Modalidad de la Solicitud	Baja Tensión ☒	Media Tensión ☐
---------------------------	--	--

IV. Utilización de la Energía Eléctrica Producida

Consumo de Centros de Carga ☒	Consumo de Centros de Carga y Venta de Excedentes ☐	Venta Total ☐
---	--	--------------------------------------

V. Datos del Servicio Suministro Actual

Registro Público de Usuario (RPU) 679210662505	Nivel de Tensión de Suministro 220 V
--	--

VI. Central Eléctrica

Fecha estimada de Operación Normal (DD/MM/AAAA) 28/10/2025	Capacidad Bruta Instalada (kw) 4.96 kW	Capacidad a Incrementar (kw) (Opcional) _____	Generación Promedio Mensual Estimada (kwh/Mes) 595.79 kWh/mes
--	--	--	---

VII. Manifestación de Cumplimiento de las Especificaciones Técnicas Generales

Manifiesto bajo protesta de decir la verdad que la Central Eléctrica cumple con las Especificaciones técnicas requeridas de acuerdo las disposiciones aplicables. ☒

Tecnología para generación de energía eléctrica

Solar ☒	Biomasa ☐	Otro ☐
Eólico ☐	Cogeneración ☐	Especificar _____

No de unidades de generación 8 MODULOS	Combustible principal SOL	Combustible secundario N/A
Coordenadas UTM 1 2 3 4 5 6	X 17.0423779	Y -96.7250164

ARROYO FERNANDEZ DANIEL

(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 anexa a la presente solicitud, la información técnica requerida en el documento "Información Técnica Requerida para Centrales Eléctricas"

Firma de Conformidad 
Solicitante

Nombre ARROYO FERNANDEZ DANIEL
Cargo PROPIETARIO
Fecha 28/10/2025

 sello y firma Centro de Atención 0230N 10/10/25
--

CARTA PODER

OAXACA DE JUÁREZ, OAXACA

A COMISIÓN FEDERAL DE ELECTRICIDAD.

Suministro de Servicios Básicos

P R E S E N T E

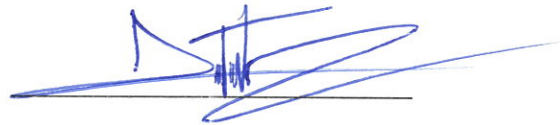
Por medio de la presente me permito informarle que no está en mis posibilidades realizar los trámites correspondientes y otros de mi servicio, por tal motivo otorgó a la C. MIJANGOS ORTIZ EUNICE poder amplio y cumplido, para que en mi nombre y representación pueda realizar todas las gestiones que se necesiten para cambios de titular, tarifas, incremento de demanda contratada, solicitudes, modificaciones y trámites que se requieran en lo subsecuente y hasta iniciar y finalizar el proceso de interconexión, relacionado con mi servicio ante la COMISIÓN FEDERAL DE ELÉCTRICIDAD, en el inmueble con dirección en PLAN DE SAN LUIS 112 REFORMA AGRARIA C.P. 71233 XOXOCOTLAN OAXACA, OAX y número de servicio 679210662505.

Acepto el poder



C. MIJANGOS ORTIZ EUNICE

Otorgante



C. ARROYO FERNANDEZ DANIEL

TESTIGOS



C. Yael Silva Rodríguez

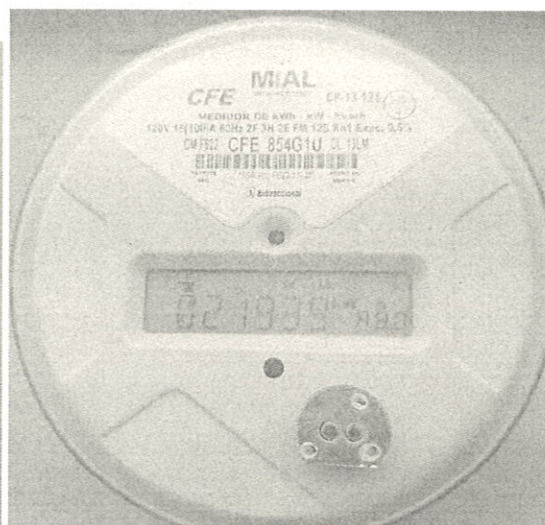


C. RAUL REYES HERNÁNDEZ



AGENCIA DE ENERGÍA
DEL PACÍFICO

CROQUIS



Dirección: PLAN DE SAN LUIS 112 REFORMA AGRARIA C.P. 71233 XOXOCOTLAN OAXACA, OAX

Coordenadas: 17.0423779,-96.7250164



agenciadeenergiadp@gmail.com



951 768 2446



agenciadeenergiadp@gmail.com

MÉXICO INSTITUTO NACIONAL ELECTORAL
CREDENCIAL PARA VOTAR

NOMBRE
ARROYO
FERNANDEZ
DANIEL

FECHA DE NACIMIENTO
09/11/1986

SEXO H

DOMICILIO
C MARCELINO TELLO S/N
LOC SANTA MARIA COYOTEPEC 71254
SANTA MARIA COYOTEPEC, OAX.

CLAVE DE ELECTOR ARFRDN86110920H200

CURP AOFD861109HOCRRN02 AÑO DE REGISTRO 2005 01

ESTADO 20 MUNICIPIO 408 SECCION 1827

LOCALIDAD 0001 EMISION 2019 VIGENCIA 2029

IDMEX1839557969<<1827073543608
8611091H2912316MEX<01<<06313<6
ARROYO<FERNANDEZ<<DANIEL<<<<<<



MÉXICO

INSTITUTO NACIONAL ELECTORAL
CREDENCIAL PARA VOTAR



NOMBRE
MIJANGOS
ORTIZ
EUNICE

DOMICILIO
PROL SALVADOR 204
COL SANTA MARIA IXCOTEL 71228
SANTA LUCIA DEL CAMINO, OAX.

CLAVE DE ELECTOR MJOEN00012720M900

CURP MIOE000127MOCJRNA5

FECHA DE NACIMIENTO
27/01/2000

SEXO M



AÑO DE REGISTRO 2017 00

ESTADO 20

MUNICIPIO 392

SECCIÓN 1756

LOCALIDAD 0001

EMISIÓN

2017

VIGENCIA 2027



Edmundo José Molina

EDMUNDO JOSÉ MOLINA
SECRETARIO EJECUTIVO DEL
INSTITUTO NACIONAL ELECTORAL

IDMEX1689359346<<1756120232248
0001270M2712310MEX<00<<25798<4
MIJANGOS<ORTIZ<<EUNICE<<<<<<<<



MÉXICO

INSTITUTO NACIONAL ELECTORAL CREDENCIAL PARA VOTAR



NOMBRE
SILVA
RODRIGUEZ
Yael

SEXO M



DOMICILIO
C LAGO ASSALE 3 A
FRACC VALLE REAL 74367
ATLIXCO, PUE.

CLAVE DE ELECTOR SLRDYL95110320M900

CURP
SIRY951103MOCLDL05

AÑO DE REGISTRO
2014 03

FECHA DE NACIMIENTO
03/11/1995

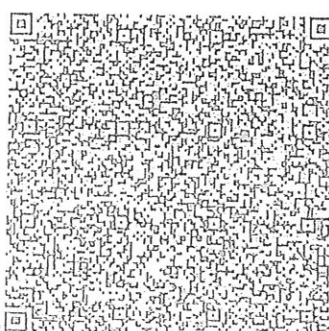
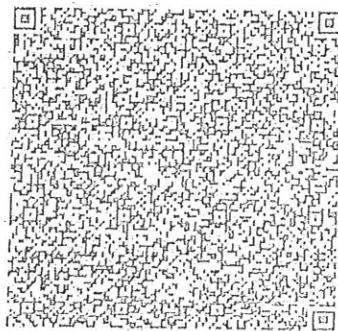
SECCIÓN
0208

VIGENCIA
2023 - 2033



ELECCIÓN ESTADORALES

LOCALES Y EXTRAORDINARIAS



E007162

EDUARDO ANCOZO ANCOZA
SECRETARIO EJECUTIVO DEL
INSTITUTO NACIONAL ELECTORAL

IDMEX2439269166<<0208096999230
9511039M3312315MEX<03<<03683<8
SILVA<RODRIGUEZ<<Yael<<<<<<<<<

MEXICO

INSTITUTO NACIONAL ELECTORAL CREDENCIAL PARA VOTAR



NOMBRE
REYES
HERNANDEZ
RAUL

SEXO H



DOMICILIO
CINICOS HEROES 107
COL EMILIANO ZAPATA 64390
MONTERREY, N.L.

CLAVE DE ELECTOR RYHRRRL96072720H400

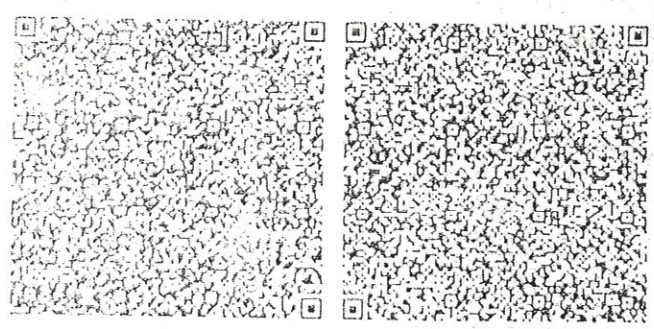
CLAVE
1911R00072/HOCYRL09

AÑO DE REGISTRO
2014 02

FECHA DE NACIMIENTO
27/07/1974

SECCIÓN
1037

VIGENCIA
2019 - 2029



C000345

Signature
EDMUNDO GARCIA
SECRETARIO EJECUTIVO DEL
INSTITUTO NACIONAL ELECTORAL

IDMEX2001075520<<1037098603201
9607273H2912316MEX<02<<38143<9
REYES<HERNANDEZ<<RAUL<<<<<<<<<

CÉDULA DE IDENTIFICACIÓN FISCAL

Hacienda
Secretaría de Hacienda y Crédito PúblicoSAT
SERVICIO DE ADMINISTRACIÓN TRIBUTARIAAOFD861109HM1
Registro Federal de ContribuyentesDANIEL ARROYO FERNANDEZ
Nombre, denominación o razón
socialIdCIF: 16020248658
VALIDA TU INFORMACIÓN
FISCAL

CONSTANCIA DE SITUACIÓN FISCAL

Lugar y Fecha de Emisión
OAXACA DE JUAREZ , OAXACA A 17 DE JULIO DE
2025

AOFD861109HM1

Datos de Identificación del Contribuyente:

RFC:	AOFD861109HM1
CURP:	AOFD861109HOCRRN02
Nombre (s):	DANIEL
Primer Apellido:	ARROYO
Segundo Apellido:	FERNANDEZ
Fecha inicio de operaciones:	19 DE MAYO DE 2006
Estatus en el padrón:	ACTIVO
Fecha de último cambio de estado:	19 DE MAYO DE 2006
Nombre Comercial:	

Datos del domicilio registrado

Código Postal: 68000	Tipo de Vialidad:
Nombre de Vialidad: PROLONGACION DE MELCHOR OCAMPO	Número Exterior: 1000
Número Interior:	Nombre de la Colonia: CENTRO
Nombre de la Localidad: OAXACA	Nombre del Municipio o Demarcación Territorial: OAXACA DE JUAREZ
Nombre de la Entidad Federativa: OAXACA	Entre Calle: AVENIDA EDUARDO MATA

Página [1] de [2]

Hacienda
Secretaría de Hacienda y Crédito PúblicoSAT
SERVICIO DE ADMINISTRACIÓN TRIBUTARIA

Contacto

Av. Hidalgo 77, col. Cuerrero, C.P. 06300, Ciudad de México.
Atención telefónica desde cualquier parte del país:
MarcaSAT 55 627 22 728 y para el exterior del país
(+52) 55 627 22 728

Y Calle: CERRADA DE FIALLO CONTRA ESQUINA DE LA FARMACIA
DEL AHO

Actividades Económicas:

Orden	Actividad Económica	Porcentaje	Fecha Inicio	Fecha Fin
1	Alquiler de Oficinas y locales comerciales	100	31/12/2011	

Regímenes:

Régimen	Fecha Inicio	Fecha Fin
Régimen de Ingresos por Dividendos (socios y accionistas)	19/05/2006	

Sus datos personales son incorporados y protegidos en los sistemas del SAT, de conformidad con los Lineamientos de Protección de Datos Personales y con diversas disposiciones fiscales y legales sobre confidencialidad y protección de datos, a fin de ejercer las facultades conferidas a la autoridad fiscal.

Si desea modificar o corregir sus datos personales, puede acudir a cualquier Módulo de Servicios Tributarios y/o a través de la dirección <http://sat.gob.mx>

"La corrupción tiene consecuencias ¡denúnciala! Si conoces algún posible acto de corrupción o delito presenta una queja o denuncia a través de: www.sat.gob.mx, denuncias@sat.gob.mx, desde México: (55) 8852 2222, desde el extranjero: + 55 8852 2222, SAT móvil o www.gob.mx/sfp".

Cadena Original Sello:

Sello Digital:

||2025/07/17|AOFD861109HM1|CONSTANCIA DE SITUACIÓN FISCAL|20000108888800000031||
kELvUhhbZz1/UgZqUp7Kmp05MN2anKavI6r1g7YuH0mNTQ6UpXIQwdbL7Fy2wYUrIDVNVXCIHMDNcA9E0eF
AsVQ85IC8cRmU6FeLEP3IiKnat5kRKqUfly49Al3viHqaraVX936b1QAT3aMmS0Xhi6iq0vmfBAvBmXV0yh71Gkw
=





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

ARROYO FERNANDEZ DANIEL

PLAN DE SAN LUIS 112
FRESNOS Y M CHICAGO
REFORMA AGRARIA U =C.P.71233
XOXOCOTLAN OAXACA,OAX

NO. DE SERVICIO:679210662505

RMU:68130 21-06-30 AOFD-861109 005 CFE

CUENTA:15DK09A501563620

LÍMITE DE PAGO:27 SEP 25

CORTE A PARTIR:28 SEP 25

TARIFA:01**NO. MEDIDOR:**854G1U

MULTIPLICADOR:1
NO HILOS:2

PERIODO FACTURADO:10 JUL 25-09 SEP 25

TOTAL A PAGAR:

\$4,207

(CUATRO MIL DOSCIENTOS SIETE PESOS M.N.)



Concepto	Lectura actual		Lectura anterior		Total periodo	Precio (MXN)	Subtotal (MXN)
	Medida ☒	Estimada ☐	Medida ☒	Estimada ☐			
Energía (kWh)		21,449		20,380	1,069		
Basico					150	1.091	163.65
Intermedio					130	1.325	172.25
Excedente					789	3.875	3,057.37



Este gráfico refleja tu nivel de consumo. A menor uso, mayor apoyo.

Subtotal

Costos de la energía en el Mercado Eléctrico Mayorista					Desglose del importe a pagar	
Concepto	\$	\$/kW	\$/kWh	Importe (MXN)	Concepto	Importe (MXN)
Suministro	80.22	0.00	0.00	80.22	Energía	3,393.28
Distribución	0.00	0.00	1,302.04	1,302.04	IVA 16%	542.92
Transmisión	0.00	0.00	193.38	193.38	Fac. del Periodo	3,936.20
CENACE	0.00	0.00	6.95	6.95	DAP((2))	271.46
Energía	0.00	0.00	919.34	919.34	Adeudo Anterior	4,044.09
Capacidad	0.00	0.00	574.05	574.05	Su Pago	-4,044.00
SCnMEM(1)	0.00	0.00	6.63	6.63	Total	4,207.75

Fecha, hora y lugar de Impresión:07/10/2025 11:08:15hrs Calle Reforma No.701 Col Centro Oaxaca Oaxaca México CP 68000

(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.



68130 21-06-30 AOFD-861109 005 CFE
01 679210662505 250927 000004207 6



15DK09A501563620 Repartir

-1-

CFE-contigo

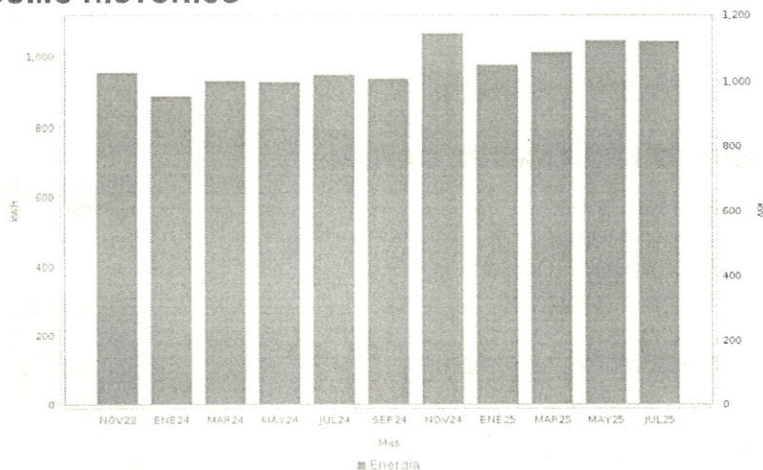


\$4,207

(CUATRO MIL DOSCIENTOS SIETE PESOS M.N.)

CONSUMO HISTÓRICO

Período	kWh	Importe	Pagos	Pendientes de Pago
del 12 MAY 25 al 10 JUL 25	1041	\$4,044.00	\$4,044.00	
del 11 MAR 25 al 12 MAY 25	1043	\$4,024.00	\$4,024.00	
del 10 ENE 25 al 11 MAR 25	1009	\$3,834.00	\$3,834.00	
del 12 NOV 24 al 10 ENE 25	974	\$3,642.00	\$3,642.00	
del 09 SEP 24 al 12 NOV 24	1064	\$4,034.00	\$4,034.00	
del 10 JUL 24 al 09 SEP 24	936	\$3,417.00	\$3,417.00	
del 10 MAY 24 al 10 JUL 24	947	\$3,443.00	\$3,443.00	
del 11 MAR 24 al 10 MAY 24	927	\$3,328.00	\$3,328.00	
del 11 ENE 24 al 11 MAR 24	930	\$3,319.00	\$3,319.00	
del 13 NOV 23 al 11 ENE 24	887	\$3,102.00	\$3,102.00	
del 12 SEP 23 al 13 NOV 23	953	\$3,354.00	\$3,354.00	



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: AOFD861109HM1 Razón Social: Régimen Fiscal: 000 Uso CFDI: CP: 00000 AC Folio: 000075485856 Folio Fiscal: UUID N. Certificado del SAT: No. certificado del CSD: Fecha y hora de certificación:
 Unidad de medida: kWh
 ||1.0||UUID||||

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



Profeco
 Procuraduría Federal
 del Consumidor

¡AVISO IMPORTANTE!

Tu comprobante fiscal es emitido por Comisión Federal de Electricidad con el RFC CFE 370814Q10.
 ¿Confort o desperdicio? Cuida tu consumo eléctrico. Nuestro compromiso es seguir conectados contigo.
 Corte a partir del 28 SEP 25.
 Su consumo de energía eléctrica está dentro del rango de consumo EXCEDENTE, que es mayor a 280 kWh bimestrales.
 Le invitamos a que se registre en nuestro portal y disfrute de la comodidad de nuestros servicios en línea.

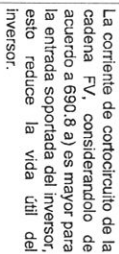
Conoce los servicios de los diferentes suministradores: <http://usuariocalificado.cre.gob.mx/UsuarioCalificado/ListadoSuministrador>

TAMBIÉN PUEDES PAGAR TU RECIBO EN:



Banco del Bienestar, Bancomer, Intercas, Santander, Banamex, Banjercito, Scotiabank, HSBC, Citibanco, Ammb, Multiva, Banco del Bajío, Banco Azteca, Bancoppel
 Son más de 100,000 establecimientos autorizados, consulta el portal cfe.mx en la sección medios de pago.

MACROLOCALIZACIÓN



CÉDULA DE CABLEADO

MARCA: HUAMEI
MODELO:
DE LA ENTRADA FV:
POLTAJE MAX ENTRADA FV: 600 V
POLTAJE MIN (ARRANQUE): 100 V
RANGO DE OPERACIÓN: 90-560 V
DE LA ENTRADA DE LA BATERIA
POLTAJE MAX ENTRADA FV: 800 V
POLTAJE MIN (ARRANQUE): 100 V
RANGO DE OPERACIÓN: 350 - 560 V
MAX. CORRIENTE DE OP.: 15 A

SALIDA AC
TENSION DE CA: 220 V
CORRIENTE NOMINAL SALIDA: 25 A

SIMBOLOGIA			
	MODULO FOTOVOLTAICO		PUESTA A TIERRA
	INVERSOR		ENVOLVENTE
	INTERFECTOR TERMOMAGNETICO		SUPERFICIE DE PISO
	DESCONECTOR CON CAMBIA		BUS DE CONEXIONES

CARACT. DEL AUTOTRANSFORMADOR

CARACTERÍSTICAS DE LA BATERÍA
MARCA: HUAWEI
MODELO: LUNA2000-SKN-CO
CAP. DE ALIM.: 5 KWH
VOLTAJE NOMINAL (single phase system): 450 V
RANGO DE OPERACIÓN (single phase system): 350-560 V
VOLTAJE NOMINAL (three phase system): 600 V
RANGO DE OPERACIÓN (three phase system): 500-980 V

CARACTERÍSTICAS DEL MÓDULO FV	
MARCA: LEAPTON SOLAR	
MODELO: LP182199	M 72 NB
P _{max} : 620Wp	
V _{oc} : 52,09 V	I _{sc} : 15,09 A
V _{mp} : 43,48 V	I _{mp} : 14,26 A

CARACTERÍSTICAS DEL BMS

MARCA:	HUAMEI
MODELO:	LUNA2000-15-S0
CAP. BAT. EN PARALELO:	3
MAX. POTENCIA SALIDA:	5kW
MAX. PICO DE POTENCIA:	7 kW, 10S
VOLTAJE NOMINAL (single phase system):	450 V
RANGO DE OPERACIÓN (single phase system):	350-550 V
VOLTAJE NOMINAL (three phase system):	600 V
RANGO DE OPERACIÓN (three phase system):	600-960 V

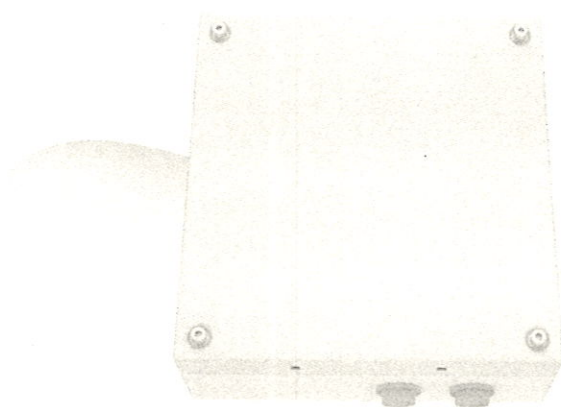
	AGENCIA DE ENERGÍA DEL PACÍFICO	
	PROPIETARIO: DANIEL ARROYO	
DISEÑO: MULLAGU BONIFACIO VICENTE ZARATE	DIAGRAMA UNIFILAR A1	
REVISÓ: MR. MIGUEL ANGEL ESTRAYOA CASTELLANO	ESCALA: 1/8"	FECHA: 08/10/2025
PLANO ELECTRICICO 1	CENTRAL FV TIPO BT	Tel: (+52) 951 139 3396

1 DELTA
1 GPT = 10 ANG (12.5 mm) / 10 ANG 10 GPT
1 GPT = 10 ANG (12.5 mm) / 10 ANG 10 GPT
1 GPT = 10 ANG (12.5 mm) / 10 ANG 10 GPT

2
ALUMINUM DELTA
1 GPT = 10 ANG (12.5 mm) / 10 ANG 10 GPT
1 GPT = 10 ANG (12.5 mm) / 10 ANG 10 GPT
1 GPT = 10 ANG (12.5 mm) / 10 ANG 10 GPT

3
ALUMINUM DELTA
1 GPT = 10 ANG (12.5 mm) / 10 ANG 10 GPT
1 GPT = 10 ANG (12.5 mm) / 10 ANG 10 GPT
1 GPT = 10 ANG (12.5 mm) / 10 ANG 10 GPT

Backup Auto-transformer



Simple & Easy

- Designed to be connected to Huawei inverter for all sizes, needed for backup applications
- Simply wiring, supports easy installation on the wall

Safe & Reliable

- Protection rating: TYPE 4X, supports outdoor application
- Natural convection, supports thermal protection

Technical Specification		HW-TX-5000
		Electrical Ratings
Continuous rated power		5 kVA
Output voltage		120 / 240 V Split Phase
Max continuous output current per phase @ 120 V		32 A
Rated AC grid frequency		60 Hz
		Standard Compliance
Safety		UL 5085-1, UL 5085-2
		General Specification
Dimensions (W x H x D)		10.4 in x 11.0 in x 5.5 in (265 mm x 280 mm x 140 mm)
Weight		28.7 lb. (13.0 kg)
Operating temperature		-40°C ~ 45°C (-40°F ~ 113°F)
Humidity range		0 ~ 100 % RH
Protection rating		TYPE 4X
Cooling		Natural convection
Noise emission (typical)		≤25 dB (A)
Installation		Wall mounted
AC output conduit size		0.75" Conduit

The text and figures reflect the current technical state at the time of printing. Subject to technical changes. Errors and omissions excluded.
Huawei assumes no liability for mistakes or printing errors. For more information, please visit solar.huawei.com. Version No. 01-(201808)



LEAPTON
SOLAR

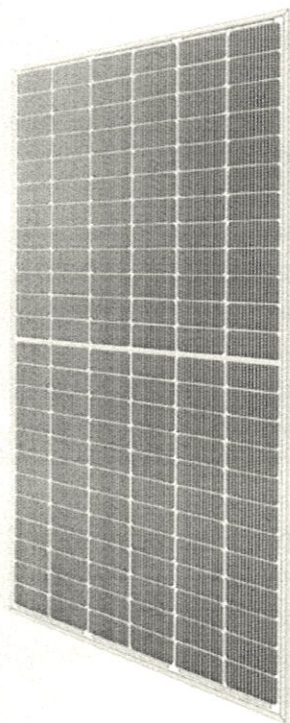
Monofacial

Bifacial

LP182*199-M-72-NB

N-Type TOPCon Dual Glass

Rated Power 620-630W



N-Type MBB Cell

New circuit design N-type cells, can increase the output power of 10W~20W



Bifacial with dual glass

Module adopts 182*199mm half cells, bifacial module provide an additional 5%~25% output.



Harsh Environmental Adaptability

Strict salt spray and ammonia corrosion test by TUV Nord.



Low Light Features

Higher performance under low light environment.



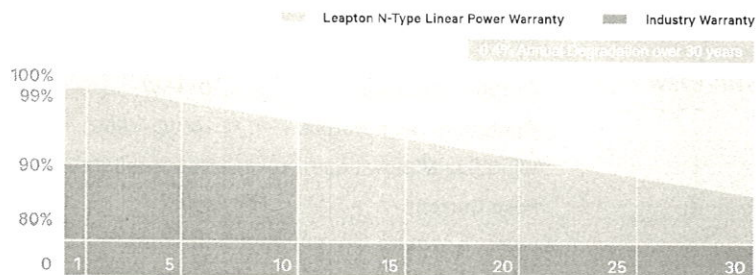
PID Protection

Ensure the attenuation probability caused by PID phenomenon is minimized.



Load Capacity

Mechanical load tests including wind load 2400 Pa and snow load 5400 Pa done by TUV Nord.



Headquarter: Leapton Energy Co., Ltd.

📍 Tosei Bldg. 6F, 1-2-1 Aioi-cho, Chuo-ku Kobe-shi, Hyogo, 650-0025, Japan

☎ +81-78-382-3182

🌐 www.leaptonenergy.jp

Manufacturer: Leapton Solar (Changshu) Co., Ltd.

📍 No.9, Sunshine Avenue, Changshu City, Jiangsu, China

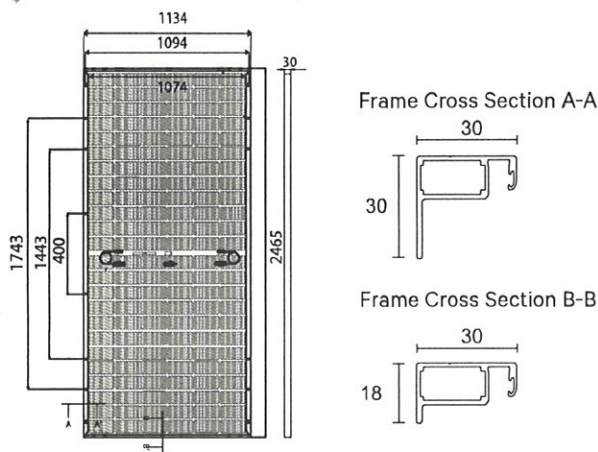
☎ +86-512-88800068

✉ info@leaptonenergy.com

🌐 www.leaptonpv.com



MECHANICAL DIAGRAMS



SPECIFICATIONS

Weight	34.3kg
Dimensions	2465mm*1134mm*30mm
Cell Dimensions	182*199mm
Cell Amount	72*2 pcs
Maximum System Voltage	1500V
Junction Box	IP68
Front glass	Aluminum Alloy
Back glass	2.0mm, Anti-Reflection Coating
Frame	2.0mm, Heat Strengthened Glass
Cable	4mm ² , N 1400mm/P 1400mm for Horizontal installation 4mm ² , N 300mm/P 300mm for Vertical installation
Connector	MC4 compatible
Bifaciality	80±5%

ELECTRICAL PARAMETERS AT STC

Power	620W	625W	630W
Open Circuit Voltage	52.09V	52.29V	52.49V
Short Circuit Current	15.09A	15.15A	15.21A
Maximum Power Voltage	43.48V	43.68V	43.88V
Maximum Power Current	14.26A	14.31A	14.36A
Module Efficiency	22.18%	22.36%	22.54%

* Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

ELECTRICAL PARAMETERS AT NMOT

Power	467W	471W	474W
Open Circuit Voltage	49.49V	49.69V	49.89V
Short Circuit Current	12.13A	12.18A	12.21A
Maximum Power Voltage	40.55V	40.75V	40.95V
Maximum Power Current	11.52A	11.56A	11.58A

* Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

ELECTRICAL PARAMETERS (AT 10% BIFACIAL POWER OUTPUT)

Output Power	682W	687W	693W
Open Circuit Voltage	52.09V	52.29V	52.49V
Short Circuit Current	16.64A	16.69A	16.77A
Maximum Power Voltage	43.49V	43.68V	43.88V
Maximum Power Current	15.68A	15.73A	15.79A

TEMPERATURE CHARACTERISTICS

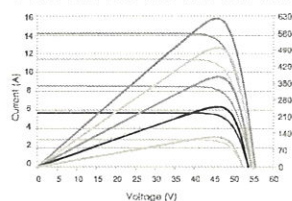
NMOT	41±3°C	Temp Coefficient of ISC	+0.046%/°C
Temp Coefficient of VOC	-0.25%/°C	Temp Coefficient of Pmax	-0.30%/°C

PACKING CONFIGURATION

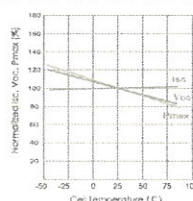
Modules/Pallet	36 Pieces	Modules/40'Container	648 Pieces
Packing Description	18 Pallets, Total=(36+36)x9=648 Pieces		

CHARACTERISTICS

LP182*199-M-72-NB-625W



LP182*199-M-72-NB-625W



MAXIMUM RATING

Output Tolerance	0~+5W
Operating Temperature	-40°C~+85°C
Wind Load/Snow Load	2400pa/5400pa
Fuse Current	25A



Headquarter : Leapton Energy Co., Ltd.

Tosei Bldg. 6F, 1-2-1 Aioli-cho, Chuo-ku Kobe-shi, Hyogo, 650-0025, Japan

Manufacturer : Leapton Solar (Changshu) Co., Ltd.

No.9, Sunshine Avenue, Changshu City, Jiangsu, China

+81-78-382-3182

www.leaptonenergy.jp

+86-512-88800068

info@leaptonenergy.com

www.leaptonpv.com





Active Safety

AI Powered
Active Arcing Protection



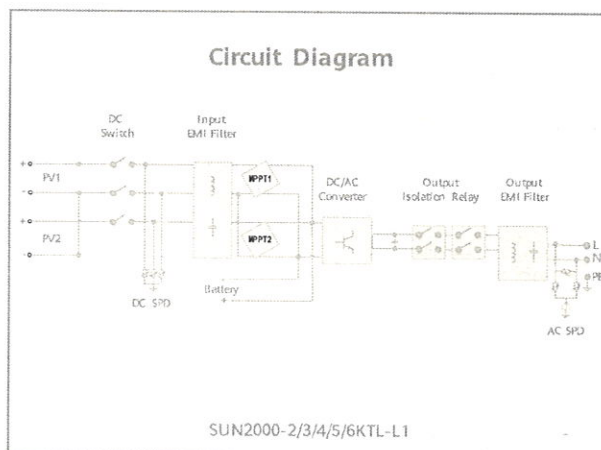
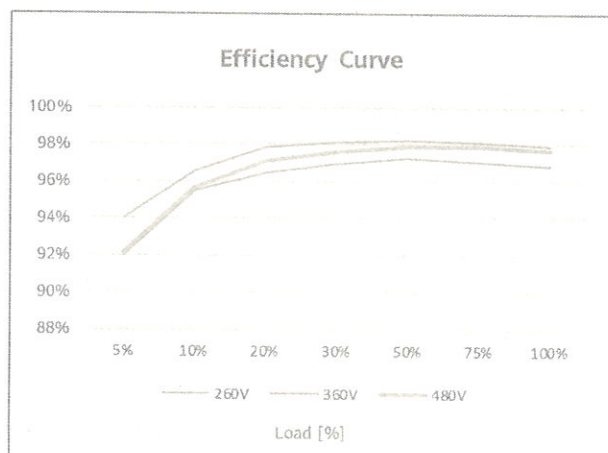
Higher Yields

Up to 30% More
Energy with Optimizer



2x POWER Battery Ready

5KW AC Output plus
5KW Battery Charge



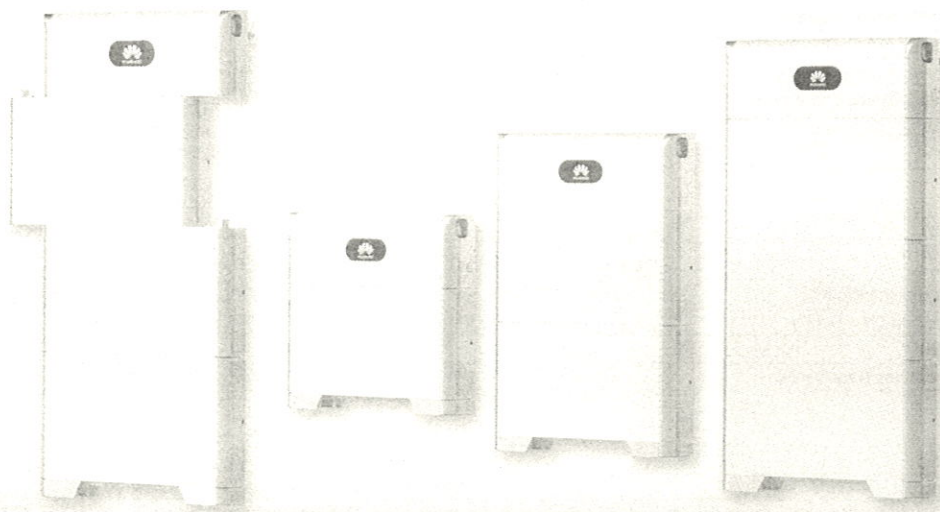
Technical Specification

Technical Specification	SUN2000 -2KTL-L1	SUN2000 -3KTL-L1	SUN2000 -4KTL-L1	SUN2000 -5KTL-L1	SUN2000 -6KTL-L1 ¹
Efficiency					
Max. efficiency	98.2 %	98.3 %	98.4 %	98.4 %	98.4 %
European weighted efficiency	96.7 %	97.3 %	97.5 %	97.8 %	97.8 %
Input (PV)					
Recommended max. PV power ²	3,000 Wp	4,500 Wp	6,000 Wp	7,500 Wp	9,000 Wp
Max. input voltage			600 V ³		
Start-up voltage			100 V		
MPPT operating voltage range			90 V ~ 560 V ³		
Rated input voltage			360 V		
Max. input current per MPPT			12.5 A		
Max. short-circuit current			18 A		
Number of MPP trackers			2		
Max. number of inputs			2		
Input (DC Battery)					
Compatible Battery			LG Chem RESU 7H_R / 10H_R		
Operating voltage range			350 ~ 450 Vdc		
Max operating current			10 A @7H_R / 15 A @10H_R		
Max charge power			3,500 W @7H_R / 5,000 W @10H_R		
Max discharge Power @7H_R	2,200 W	3,300 W	3,500 W	3,500 W	3,500 W
Max discharge Power @10H_R	2,200 W	3,300 W	4,400 W	5,000 W	5,000 W
Compatible Battery			HUAWEI Smart ESS Battery 5kWh ~ 30kWh ¹		
Operating voltage range			350 ~ 560 Vdc		
Max operating current			15 A		
Max charge Power			5,000 W ⁴		
Max discharge Power	2,200 W	3,300 W	4,400 W	5,000 W	5,000 W
Output					
Grid connection			Single phase		
Rated output power	2,000 W	3,000 W	4,000 W	5,000 W ⁵	6,000 W
Max. apparent power	2,200 VA	3,300 VA	4,400 VA	5,500 VA ⁷	6,000 VA
Rated output voltage			220 Vac / 230 Vac / 240 Vac		
Rated AC grid frequency			50 Hz / 60 Hz		
Max. output current	10 A	15 A	20 A	25 A ⁸	27.3 A
Adjustable power factor			0.8 leading ... 0.8 lagging		
Max. total harmonic distortion			≤ 3 %		
Backup power output			Yes (via Backup Box-5000 ¹)		
Protection & Feature					
Anti-Islanding protection			Yes		
DC reverse polarity protection			Yes		
Insulation monitoring			Yes		
DC surge protection			Yes, compatible with TYPE II protection class according to EN/IEC 61643-11		
AC surge protection			Yes, compatible with TYPE II protection class according to EN/IEC 61643-11		
Residual current monitoring			Yes		
AC overcurrent protection			Yes		
AC short-circuit protection			Yes		
AC overvoltage protection			Yes		
Over-heat protection			Yes		
Arc fault protection			Yes		
Battery reverse charging from grid			Yes		
General Data					
Operating temperature range			-25 ~ +60 °C (Derating above 45°C @ Rated output power)		
Relative operating humidity			0 %RH ~ 100 %RH		
Operating altitude			0 ~ 4,000 m (Derating above 2,000 m)		
Cooling			Natural convection		
Display			LED indicators; integrated WLAN + FusionSolar APP		
Communication			RS485, WLAN via inverter built-in WLAN module		
Weight (incl. mounting bracket)			Ethernet via Smart Dongle-WLAN-FE (Optional); 4G / 3G / 2G via Smart Dongle-4G (Optional)		
Dimension (incl. mounting bracket)			12.0 kg (26.5 lb)		
Degree of protection			365mm * 365mm * 156 mm (14.4 x 14.4 x 6.1 inch)		
			IP65		
Optimizer Compatibility					
DC MBUS compatible optimizer			SUN2000-450W-P		
Standard Compliance (more available upon request)					
Safety			EN/IEC 62109-1, EN/IEC 62109-2		
Grid connection standards			G98, G99, EN 50549-1, CEI 0-21, VDE-AR-N-4105, AS 4777.2, C10/11, ABNT, UTE C15-712, RD 1699, TOR D4, IEC61727, IEC62116		

¹ Available in 2020 Q3.² Inverter max input PV power is 10,000 Wp when long strings are designed and fully connected with SUN2000-450W-P power optimizers.³ The maximum input voltage and operating voltage upper limit will be reduced to 450 V when inverter connects and works with LG battery.⁴ 4,500 W @ 5kWh HUAWEI ESS battery⁵ AS4777.2:4999W, ⁶ VDE-AR-N-4105:4600VA / AS4777.2:4999VA, ⁷ AS4777.2:4999VA, ⁸ AS4777.2:21.7A

SMART STRING ENERGY STORAGE SYSTEM

LUNA2000-5/10/15-S0



More Usable Energy
100% Depth of Discharge and
Pack-Level Energy Optimization



Flexible Investment
5 kWh Modular Design,
Scalable from 5 to 30 kWh



Safe & Reliable
5-layer Safety Protection
IP66



Easy Installation
12 kg Power Module
50 kg Battery Module

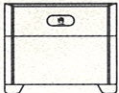
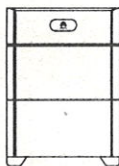
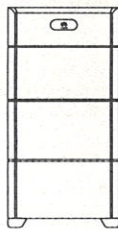


Quick Commissioning
Automatic Device
Discovery by the App



Perfect Compatibility
Compatible to Single & Three
Phase Inverters

LUNA2000-5/10/15-S0 Technical Specification

Technical Specification	Performance		
	LUNA2000-5-S0	LUNA2000-10-S0	LUNA2000-15-S0
			
Power module	LUNA2000-5KW-C0		
Number of power modules	1		
Battery module	LUNA2000-5-E0		
Battery module capacity	5 kWh		
Number of battery modules	1	2	3
Battery usable capacity ¹	5 kWh	10 kWh	15 kWh
Max. output power	2.5 kW	5 kW	5 kW
Peak output power	3.5 kW, 10 s	7 kW, 10 s	7 kW, 10 s
Nominal voltage (single-phase system)	450 V		
Operating voltage range (single-phase system)	350-560 V		
Nominal voltage (three-phase system)	600 V		
Operating voltage range (three phase system)	600 ~ 980 V		
	Communication		
Display	SOC status indicator, LED indicator		
Communication	RS485/CAN (only for parallel operation)		
	General Specification		
Dimensions (W x D x H)	670 mm x 150 mm x 600 mm (26.4 in. x 5.9 in. x 23.6 in.)	670 mm x 150 mm x 960 mm (26.4 in. x 5.9 in. x 37.8 in.)	670 mm x 150 mm x 1320 mm (26.4 in. x 5.9 in. x 60.0 in.)
Weight (Floor stand toolkit included)	63.8 kg (140.7 lb)	113.8 kg (250.9 lb)	163.8 kg (361.1 lb)
Power module dimension (W x D x H)	670 mm x 150 mm x 240 mm (26.4 in. x 5.9 in. x 9.4 in.)		
Power module weight	12 kg (26.5 lb)		
Battery module dimensions (W x D x H)	670 mm x 150 mm x 360 mm (26.4 in. x 5.9 in. x 14.0 in.)		
Battery module weight	50 kg (110.2 lb) ²		
Installation	Floor stand (standard), Wall mount (optional)		
Operating temperature	-20°C to +55°C (-4°F to +131°F) ³		
Max. operating altitude	4,000 m (13,123 ft.) (Derating above 2,000 m)		
Environment	Outdoor / Indoor ⁴		
Relative humidity	5%-95% RH		
Cooling	Natural convection		
IP rating	IP 66		
Noise emission ⁵	< 29 dB		
Cell technology	Lithium-iron phosphate (LiFePO4)		
Compatible inverters ⁶	SUN2000-2/3/3.68/4/4.6/5/6KTL-L1, SUN2000-8/10K-LC0 SUN2000-3/4/5/6/8/10KTL-M1, SUN2000-12/15/17/20/25K-MB0		
	Standards Compliance (More Available Upon Request)		
Certificates	CE, RCM, CEC, VDE2510-50, IEC62619, IEC 60730, UN38.3		
	Ordering and Deliverable Part		
Available for ordering ⁷	LUNA2000-5KW-C0, LUNA2000-5-E0, LUNA2000 Wall Mounting Bracket		

*1 Test conditions: 100% depth of discharge (DoD), 0.2C rate charge & discharge at 25°C, at the beginning of life. If no PV modules are installed or the system has not detected sunlight for at least 24 hours, the minimum end of discharge SOC is 15%.

*2 The weight of the battery module is subject to the actual product, with a tolerance of ±3%.

*3 Refer to battery warranty letter for conditional application.

*4 Outdoor installation is recommended. For indoor installation, refer to the user manual for instruction.

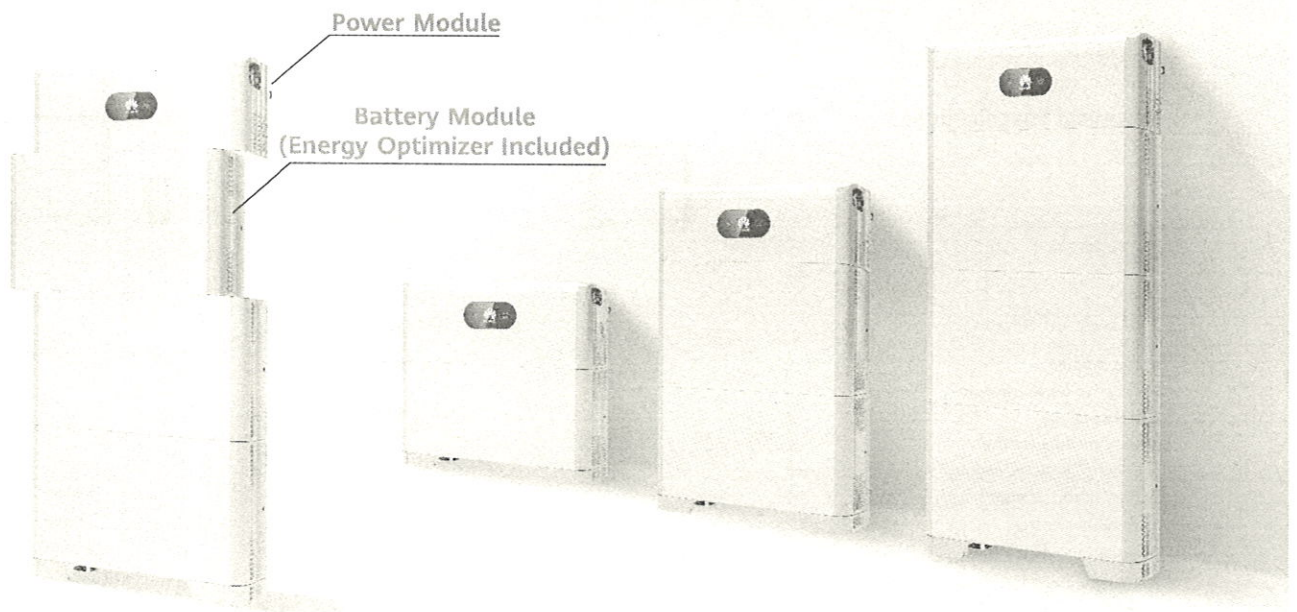
*5 Noise level (typical): < 29 dB(A) @1 m, 30°C, power on and run stably for 2 hours

*6 Please contact local engineer for the compatibility.

*7 Storage system is ordered and delivered in the form of power module and battery module separately with corresponding quantity.

Disclaimer: the preceding values are measured by an internal laboratory of Huawei in a specific environment. The actual values may vary with products, software versions, usage conditions, and environmental factors.

Smart String Energy Storage System



More Usable Energy

100% Depth of Discharge
Pack Level Energy Optimization



Flexible Investment

5kWh Modular Design,
Scalable from 5 to 30 kWh



Safe & Reliable

Lithium Iron Phosphate (LFP) Cell



Easy Installation

12 kg Power Module
50 kg Battery Module



Quick Commissioning

Automatically Detected in App



Perfect Compatibility

Compatible to Both Residential
Single & Three Phase Inverter

LUNA2000-5/10/15-S0

Technical Specification

Technical Specification

Power module

Number of power modules

Battery module

Battery module energy

Number of battery Modules

Battery usable energy ¹

Max. output power

Peak output power

Nominal voltage (single phase system)

Operating voltage range (single phase system)

Nominal voltage (three phase system)

Operating voltage range (three phase system)

Display

Communication

Dimension (W*D*H)

Weight (Floor stand toolkit included)

Power module dimension (W*D*H)

Power module weight

Battery module dimension (W*D*H)

Battery module weight

Installation

Operating temperature

Operating altitude

Environment

Relative humidity

Cooling

Protection rating

Noise emission

Cell technology

Scalability

Compatible inverters

Certificates

Product ordering model ⁵

1. Test conditions: 100% depth of discharge (DoD), 0.2C rate charge & discharge at 25°C

2. Charge/discharge derating occurs when the operating temperature from -20°C to 5°C & 45°C to 55°C

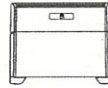
3. Refer to battery warranty letter for conditional application

4. Available in Q1, 2021

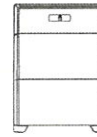
5. Storage system is ordered and delivered in the form of power module and battery module separately with corresponding quantity

Version No.:04-(20201006)

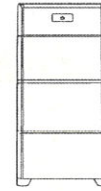
LUNA2000-5-S0



LUNA2000-10-S0



LUNA2000-15-S0



Performance

LUNA2000-5KW-C0

1

LUNA2000-5-E0

5 kWh

2

10 kWh

5 kW

7 kW, 10 s

450 V

350 ~ 560 V

600 V

600 ~ 980 V

3

15 kWh

5 kW

7 kW, 10 s

Communication

SOC status indicator, LED indicator

RS485 / CAN (only for parallel operation)

General Specification

670 * 150 * 600 mm
(26.4 * 5.9 * 23.6 inch)

63.8 kg (140.7 lb)

670 * 150 * 960 mm
(26.4 * 5.9 * 37.8 inch)

113.8 kg (250.9 lb)

670 * 150 * 240 mm (26.4 * 5.9 * 9.4 inch)

12 kg (26.5 lb)

670 * 150 * 360 mm (26.4 * 5.9 * 14.0 inch)

50 kg (110.2 lb)

Floor stand (standard), Wall mount (optional)

-10°C ~ +55°C (-4°F ~ 131°F) ²

0 ~ 4,000 m (13,123 ft.) (Derating above 2,000 m)

Indoor / Outdoor

5% ~ 95%

Natural convection

IP 65

<29 dB

Lithium-iron phosphate (LiFePO4)

Max. 2 systems in parallel operation

SUN2000-2/3/3.68/4/4.6/5/6KTL-L1,

SUN2000-3/4/5/6/8/10KTL-M0 ⁴, SUN2000-3/4/5/6/8/10KTL-M1

Standard Compliance (more available upon request)

CE, RCM, CEC, VDE2510-S0, IEC62619, IEC 60730, UN38.3

Ordering and Deliverable Part

LUNA2000-5KW-C0, LUNA2000-5-E0, LUNA2000 Wall Mounting Bracket

SOLAR.HUAWEI.COM/EU/

CERTIFICATE

TÜV NORD CERT GmbH
herewith declares that

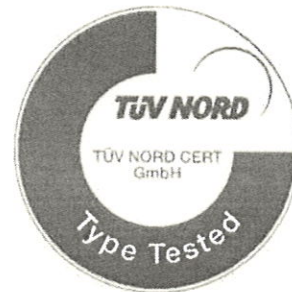
Leapton Solar (Changshu) Co., Ltd.

No. 9, Sunshine Avenue, Yushan High Technology Industry Zone, Changshu City
Jiangsu Province, 215500
P.R. China

is authorized to provide the product mentioned below with the mark as illustrated:

Description of product (details see Annex 2):

Crystalline Silicon Terrestrial Photovoltaic (PV) Modules



Valid from: 2024-07-12
Valid until: 2024-12-12

Certification program:	P12-VA-01 Rev. 17 09.20
Certification fundamental(s):	P12.4-AA-02 Rev. 00 (IEC TS 62804-1:2015 modified)
Remark:	Test temperature: 85°C; Relative humidity: 85%; Test duration: 96 hours.
Registered No.:	44 780 19 406749 - 404R4A1M4
Manufacturer and factory(-ies):	See Annex 1
Test Report No.:	492011339.005
File No.:	PVP01197/24P-01



TÜV NORD CERT GmbH
Certification Body
Consumer Products



Essen, 2024-07-12

Please also pay attention to the information stated overleaf.

Manufacturer and factory(-ies):

Manufacturer: **Leapton Solar (Changshu) Co., Ltd.**
No. 9, Sunshine Avenue, Yushan High Technology Industry Zone,
Changshu City
Jiangsu Province, 215500, P.R. China

Factory: **Leapton Solar (Changshu) Co., Ltd.**
No. 9, Sunshine Avenue, Yushan High Technology Industry Zone,
Changshu City
Jiangsu Province, 215500, P.R. China

Factory inspection report no.: 862010379.007

Remark:

Factory inspection is mandatory to be performed annually. Please refer to factory inspection report for detailed information.



TÜV NORD CERT GmbH
Certification Body
Consumer Products

Description of product(s):

Module types:	PV Modules with 6" Half Cut Mono-crystalline Silicon Solar Cells: 144 cells: LP158*158-M-72-H-***W (** = 365-400, in increment of 5) 120 cells: LP158*158-M-60-H-***W (** = 305-330, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	15A or 20A
Application class:	Class A
Electrical protection class:	Class II
Module types:	PV Modules with 6" Half Cut Mono-crystalline Silicon Solar Cells: 144 cells: LP166*166-M-72-MH-***W (** = 420-455, in increment of 5) 132 cells: LP166*166-M-66-MH-***W (** = 385-415, in increment of 5) 120 cells: LP166*166-M-60-MH-***W (** = 350-380, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	20A
Application class:	Class A
Electrical protection class:	Class II
Module types:	PV Modules with 7" Half Cut Mono-crystalline Silicon Solar Cells: 156 cells: LP182*182-M-78-MH-***W (** = 560-605, in increment of 5) 144 cells: LP182*182-M-72-MH-***W (** = 515-555, in increment of 5) 132 cells: LP182*182-M-66-MH-***W (** = 475-510, in increment of 5) 120 cells: LP182*182-M-60-MH-***W (** = 430-465, in increment of 5) 108 cells: LP182*182-M-54-MH-***W (** = 390-415, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	25A
Application class:	Class A
Electrical protection class:	Class II



TÜV NORD CERT GmbH
Certification Body
Consumer Products

Module types:	PV Modules with Half-cut 210*210mm Mono-crystalline Silicon Solar Cells: 132 cells: LP210*210-M-66-MH-***W (** = 630-670, in increment of 5) 120 cells: LP210*210-M-60-MH-***W (** = 575-610, in increment of 5) 108 cells: LP210*210-M-54-MH-***W (** = 515-545, in increment of 5) 96 cells: LP210*210-M-48-MH-***W (** = 460-485, in increment of 5) 84 cells: LP210*210-M-42-MH-***W (** = 400-425, in increment of 5) 110 cells: LP210*210-M-55-MH-***W (** = 520-555, in increment of 5) 100 cells: LP210*210-M-50-MH-***W (** = 475-505, in increment of 5) 90 cells: LP210*210-M-45-MH-***W (** = 425-455, in increment of 5) 80 cells: LP210*210-M-40-MH-***W (** = 380-400, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	30A
Application class:	Class A
Electrical protection class:	Class II

Module types:	PV Modules with Half-cut 182*182/188mm n-type TOPCon Bifacial Silicon Solar Cells: 156 cells: LP182*182-M-78-NH-***W (** = 580-625, in increment of 5) 144 cells: LP182*182-M-72-NH-***W (** = 555-600, in increment of 5) 132 cells: LP182*182-M-66-NH-***W (** = 510-550, in increment of 5) 120 cells: LP182*182-M-60-NH-***W (** = 460-500, in increment of 5) 108 cells: LP182*182-M-54-NH-***W (** = 410-450, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	25A
Application class:	Class A
Electrical protection class:	Class II

Module types:	PV Modules with Half-cut 182*210mm n-type TOPCon Bifacial Silicon Solar Cells: 132 cells: LP182*210-M-66-NH-***W (** = 580-635, in increment of 5) 120 cells: LP182*210-M-60-NH-***W (** = 530-575, in increment of 5) 108 cells: LP182*210-M-54-NH-***W (** = 475-520, in increment of 5) 96 cells: LP182*210-M-48-NH-***W (** = 420-460, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	25A
Application class:	Class A



TÜV NORD CERT GmbH
 Certification Body
 Consumer Products

Electrical protection class:	Class II
Module types:	PV Modules with Half-cut 182*199/191mm n-type TOPCon Bifacial Silicon Solar Cells: 144 cells: LP182*199-M-72-NH-***W (** = 570-655, in increment of 5) 132 cells: LP182*199-M-66-NH-***W (** = 525-600, in increment of 5) 120 cells: LP182*199-M-60-NH-***W (** = 475-545, in increment of 5) 108 cells: LP182*199-M-54-NH-***W (** = 430-490, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	25A
Application class:	Class A
Electrical protection class:	Class II
Module types:	PV Modules with Half-cut 210*210mm n-type TOPCon Bifacial Silicon Solar Cells: 132 cells: LP210*210-M-66-NH-***W (** = 675-700, in increment of 5) 120 cells: LP210*210-M-60-NH-***W (** = 615-635, in increment of 5) 108 cells: LP210*210-M-54-NH-***W (** = 555-570, in increment of 5) 96 cells: LP210*210-M-48-NH-***W (** = 490-510, in increment of 5) 84 cells: LP210*210-M-42-NH-***W (** = 430-445, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	30A
Application class:	Class A
Electrical protection class:	Class II

Remark:

For detailed product information, please refer to CDF (Constructional Data Form).



TÜV NORD CERT GmbH
Certification Body
Consumer Products

CERTIFICATE

TÜV NORD CERT GmbH
herewith declares that

Lepton Solar (Changshu) Co., Ltd.
No. 9, Sunshine Avenue, Yushan High Technology Industry Zone,
Changshu City, Jiangsu Province, 215500
P.R. China

is authorized to provide the product mentioned below with the mark as illustrated:

Description of product (details see Annex 2):

Crystalline Silicon Terrestrial Photovoltaic (PV) Modules



Valid from: 2024-09-06

Valid until: 2028-07-30

Certification program:	P12-VA-01 Rev. 17 09.20
Certification fundamental(s):	P12.4-AA-02 Rev. 00 (IEC TS 62804-1:2015 modified)
Remark:	Test temperature: 85°C; Relative humidity: 85%; Test duration: 96 hours.
Registered No.:	44 780 23 406749 - 235R2M2
Manufacturer and factory(-ies):	See Annex 1
Test Report No.:	492012603.003
File No.:	PVP08123/24P-04



TÜV NORD CERT GmbH
Certification Body
Consumer Products



Essen, 2024-09-06

Please also pay attention to the information stated overleaf.



Anlage 1 zum Zertifikat Nr.: / Annex 1 to Certificate No.: 44 780 23 406749 - 235R2M2

Seite / Page 1 von / of 1

Aktenzeichen: / File reference: PVP08123/24P-04

2024-09-06

Manufacturer and factory(-ies):

Manufacturer: **Leapton Solar (Changshu) Co., Ltd.**
No. 9, Sunshine Avenue, Yushan High Technology Industry Zone,
Changshu City
Jiangsu Province, 215500, P.R. China

Factory : **Leapton Solar (Changshu) Co., Ltd.**
No. 9, Sunshine Avenue, Yushan High Technology Industry Zone,
Changshu City
Jiangsu Province, 215500, P.R. China

Factory inspection report no.: 862010379.007

Remark:

Factory inspection is mandatory to be performed annually. Please refer to factory inspection report for detailed information.

TÜV NORD CERT GmbH
Certification Body
Consumer Products

Description of product(s):

Module types: **Double Glass PV Modules with 7" Half Cut Mono-crystalline Silicon Solar Cells:**
 144 cells: LP182*182-M-72-MB-***W (** = 520-550, in increment of 5)
 132 cells: LP182*182-M-66-MB-***W (** = 475-505, in increment of 5)
 120 cells: LP182*182-M-60-MB-***W (** = 435-455, in increment of 5)
 108 cells: LP182*182-M-54-MB-***W (** = 390-410, in increment of 5)

Maximum system voltage: 1500V

Maximum overcurrent protection rating: 25A

Electrical protection class: Class II

Module types: **Double Glass PV Modules with 8" Half Cut Mono-crystalline Silicon Solar Cells:**
 132 cells: LP210*210-M-66-MB-***W (** = 630-670, in increment of 5)
 120 cells: LP210*210-M-60-MB-***W (** = 575-610, in increment of 5)
 108 cells: LP210*210-M-54-MB-***W (** = 515-545, in increment of 5)
 96 cells: LP210*210-M-48-MB-***W (** = 460-485, in increment of 5)
 84 cells: LP210*210-M-42-MB-***W (** = 400-425, in increment of 5)
 110 cells: LP210*210-M-55-MB-***W (** = 520-555, in increment of 5)
 100 cells: LP210*210-M-50-MB-***W (** = 475-505, in increment of 5)
 90 cells: LP210*210-M-45-MB-***W (** = 425-455, in increment of 5)
 80 cells: LP210*210-M-40-MB-***W (** = 380-400, in increment of 5)

Maximum system voltage: 1500V

Maximum overcurrent protection rating: 30A

Electrical protection class: Class II



TÜV NORD CERT GmbH
Certification Body
Consumer Products

Module types: Double Glass PV Modules with Half-cut 210*210mm n-type TOPCon Bifacial Silicon Solar Cells:
132 cells: LP210*210-M-66-NB-***W (***) = 665-730, in increment of 5)
120 cells: LP210*210-M-60-NB-***W (***) = 610-665, in increment of 5)
108 cells: LP210*210-M-54-NB-***W (***) = 550-595, in increment of 5)
96 cells: LP210*210-M-48-NB-***W (***) = 490-530, in increment of 5)
84 cells: LP210*210-M-42-NB-***W (***) = 430-465, in increment of 5)

Maximum system voltage: 1500V

Maximum overcurrent protection rating: 30A

Electrical protection class: Class II

Module types: Double Glass PV Modules with Half-cut 182*210mm n-type TOPCon Bifacial Silicon Solar Cells:
132 cells: LP182*210-M-66-NB-***W (***) = 580-630, in increment of 5)
120 cells: LP182*210-M-60-NB-***W (***) = 530-570, in increment of 5)
108 cells: LP182*210-M-54-NB-***W (***) = 475-515, in increment of 5)
96 cells: LP182*210-M-48-NB-***W (***) = 420-455, in increment of 5)

Maximum system voltage: 1500V

Maximum overcurrent protection rating: 25A

Electrical protection class: Class II

Module types: Double Glass PV Modules with Half-cut 182*182/188mm n-type TOPCon Bifacial Silicon Solar Cells:
156 cells: LP182*182-M-78-NB-***W (***) = 580-620, in increment of 5)
144 cells: LP182*182-M-72-NB-***W (***) = 535-600, in increment of 5)
132 cells: LP182*182-M-66-NB-***W (***) = 490-550, in increment of 5)
120 cells: LP182*182-M-60-NB-***W (***) = 445-500, in increment of 5)
108 cells: LP182*182-M-54-NB-***W (***) = 400-450, in increment of 5)

Maximum system voltage: 1500V

Maximum overcurrent protection rating: 25A

Electrical protection class: Class II

Module types: Double Glass PV Modules with Half-cut 182*199/191mm n-type TOPCon Bifacial Silicon Solar Cells:
144 cells: LP182*199-M-72-NB-***W (***) = 570-655, in increment of 5)
132 cells: LP182*199-M-66-NB-***W (***) = 525-600, in increment of 5)
120 cells: LP182*199-M-60-NB-***W (***) = 475-545, in increment of 5)
108 cells: LP182*199-M-54-NB-***W (***) = 430-490, in increment of 5)

Maximum system voltage: 1500V

Maximum overcurrent protection rating: 25A

Electrical protection class: Class II

Remark:

For detailed product information, please refer to CDF (Constructional Data Form).



TÜV NORD CERT GmbH
Certification Body
Consumer Products



Product Service

EU Type Examination Certificate

Certificate No: TPS-RED500229 i02

Certificate Holder: Huawei Technologies Co., Ltd.
Administration Building
Headquarters of Huawei Technologies Co., Ltd.
Bantian, Longgang District
518129 Shenzhen
PEOPLE'S REPUBLIC OF CHINA

Product Type: Wireless LAN equipment
Solar Inverter

Model(s): SUN2000-6KTL-L1, SUN2000-5KTL-L1, SUN2000-4.6KTL-L1,
SUN2000-4KTL-L1, SUN2000-3.68KTL-L1, SUN2000-3KTL-L1,
SUN2000-2KTL-L1

We, as Notified Body number 0123, have examined the technical documentation and supporting evidence for the above listed equipment and found it to comply with the requirements of Annex III Module B of Radio Equipment Directive 2014/53/EU in relation to the following essential requirements covered by the examination

Essential Requirements: Article 3.1 (a) in respect of Health and Safety
Article 3.1 (b) in respect of EMC
Article 3.2 in respect of the use of the Radio Spectrum

This is based upon examination of the following Technical Data file. Please refer to the Annex for further technical details.

Technical Documentation: SUN2000-5KTL-L1 (v) up1 RED TCF

Valid from: 2020-07-29

(Laurentiu Dan Miiler)

Total pages: Page 1 of 3

The certificate has been issued in accordance with the Certification Regulations of TÜV SÜD Product Service GmbH (Notified Body Number 0123) and constitutes page 1 of the combined Certificate and Annex.

The CE marking may be used on the equipment described above subject to the equipment meeting the compliance requirements of all applicable EU directives.

The conditions for the validity of this certificate are listed in the Annex.
For further details related to this certification please contact ps-zert@tuev-sued.de

Issued by TÜV SÜD Product Service under document number: RED1A 041829 4254 Rev. 00

TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany

TÜV®



Annex to EU-Type Examination Certificate

1 Equipment Description

Equipment is a Solar Inverter supporting WLAN technology.

1.1 Models

	Model	Variant HW/SW Differences	HW Version	SW Version
Original	SUN2000-5KTL-L1	All models have the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction, with SOLAR INVERTER SUN2000-5KTL-L1. The differences among these models are only in the output power ratings and fan	V200	V200
Variant	SUN2000-4.6KTL-L1			
	SUN2000-4KTL-L1			
	SUN2000-3.68KTL-L1			
	SUN2000-3KTL-L1			
	SUN2000-2KTL-L1			
	SUN2000-6KTL-L1			

1.2 Supported Functions and Features

1.2.1 Non-radio features

d.c. Max. Input Voltage: 600VDC; d.c. Max. Input Current: 12.5A;

MPPT Voltage Range: 90VDC – 560VDC; Output Frequency: 50/60Hz

Output Voltage: 230V/240V for SUN2000-3.68KTL-L1, 220V/230V/240V for other models

1.2.2 Radio features

Radio	Features	Operating Spectrum / Power	
IEEE 802.11 – 2.4 GHz	b/g/n20/n40, Adaptive	2400-2483.5 MHz	17.77 dBm

1.3 Associated Parts

Model/Part Number	Description
N/A	N/A

2 Assessed Standards

Article 3.1(a)	Article 3.1(b)	Article 3.2
EN 62109-1:2010 EN 62109-2:2011 EN 50385:2017	EN 55011:2016 EN 62920:2017 EN 61000-6-1:2007 EN 61000-6-2:2005 EN 61000-6-3:2007/A1:2011 EN 61000-6-4:2007/A1:2011 EN 301 489-1 V2.2.3 Draft EN 301 489-17 V3.2.0 EN 61000-3-2:2014 EN 61000-3-3:2013 EN 61000-3-11:2000 EN 61000-3-12:2011	EN 300 328 V2.1.1



Annex to EU-Type Examination Certificate

3 Technical Documentation

3.1 Technical Documentation

Technical documentation and supporting evidence were examined and found to comply with the EU-type examination requirements in conjunction with Annex V requirements of the directive.

3.2 Declarations

Declaration of Conformity of SUN2000-5KTL-L1(v) up1 for RED, draft	Dated	2020-07-22
Declaration of multiple model difference up1	Dated	2020-07-10
Modification description for SUN2000-5KTL-L1(v) up1	Dated	2020-07-22

3.3 Strategic Documentation

Risk Assessment Letter for SUN2000-5KTL-L1(v) up1 for RED	Issued	2020-07-22
Justification of Conformity of SUN2000-5KTL-L1(v) up1 for RED	Modified	2020-07-29

3.4 Technical Compliance Documentation

3.4.1 Article 3.1(a)

083-52008202-100 part 1 of 2	Issued	2020-07-25
083-52008202-100 part 2 of 2	Issued	2020-07-25
SYBH(R-EMF)06535247-1	Issued	2020-05-25

3.4.2 Article 3.1(b)

68.760.20.0257.02	Issued	2020-07-22
-------------------	--------	------------

3.4.3 Article 3.2

SZEM200400223301	Issued	2020-04-15
------------------	--------	------------

4 Additional Information

None

5 Conditions of Validity

None

Signature: _____

Date: _____ 2020-07-29

On behalf of TÜV SÜD Product Service