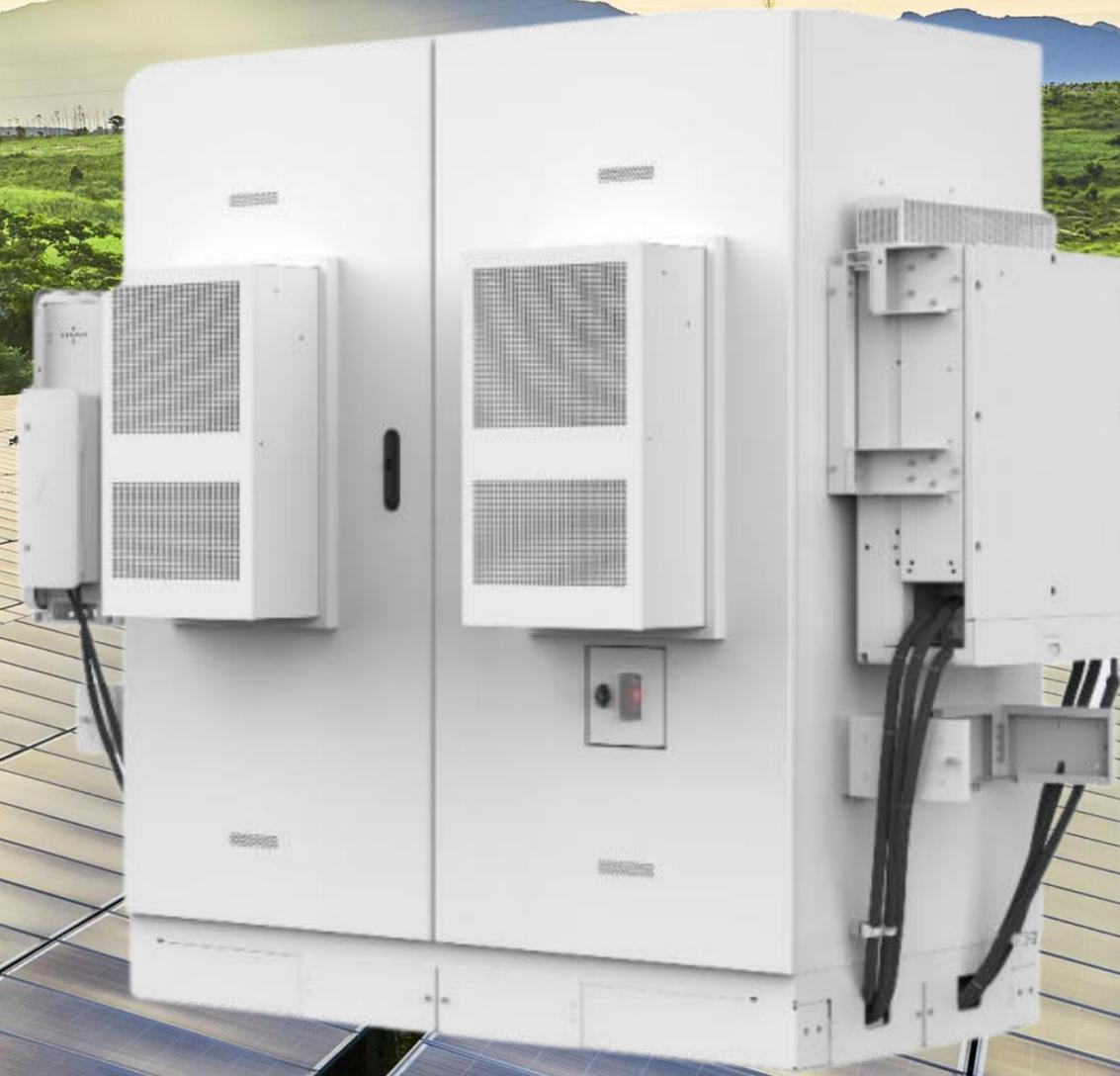




EMAT
Materiales Fotovoltaicos



Nuevas Soluciones Huawei **2023**





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Materiales Fotovoltaicos



**One Stop Shop
de energía solar**



**Asesoría técnica
y postventa**



**Logística rápida
a todo Chile**



NUUESTRA FILOSOFÍA



One Stop Shop:
Todo para una planta solar en un solo lugar



Excelente calidad:
Productos eficientes, innovadores y que perduran en el tiempo



Atención integral:
Asesoría técnica y servicio postventa



Rápida logística:
Gestión y despacho para todo el territorio nacional

ALIADOS COMERCIALES

Somos distribuidores y
representantes oficiales de los
principales fabricantes de equipos y
materiales de la industria
fotovoltaica.





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SOLUCIONES 2023



Solución Híbrida Monofásica

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



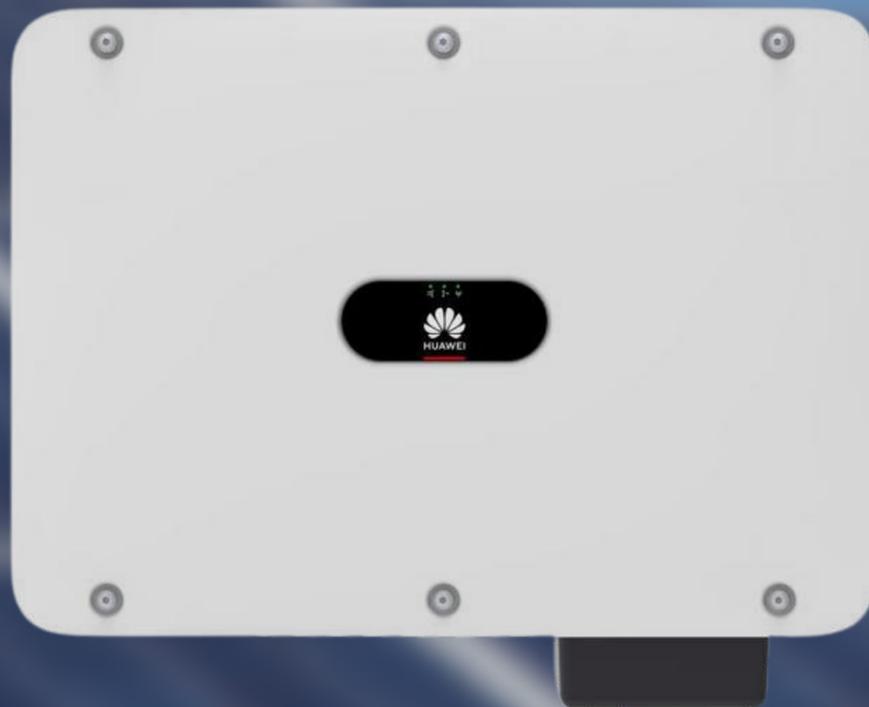
Solución Híbrida Trifásica

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





Solución Comercial e Industrial
SUN2000-12/15/17/20KTL-M2



Solución Comercial e Industrial
SUN2000-30/36/40KTL-M3

SOLUCIONES C&I

HUAWEI 2023



Nueva Versión M1 High Current

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



Seguridad Activa

Impulsado por IA protección activa contra arcos



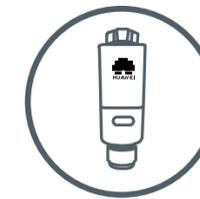
Rendimientos más altos

Hasta un 30 % más de energía con Optimizador



Batería lista

Interfaz de batería Plug & Play2



Comunicación flexible

WLAN, Fast Ethernet, comunicación 4G compatible

Versión M1

Input (PV)						
	4,500 Wp	6,000 Wp	7,500 Wp	9,000 Wp	12,000 Wp	15,000 Wp
Recommended max. PV power ¹	4,500 Wp	6,000 Wp	7,500 Wp	9,000 Wp	12,000 Wp	15,000 Wp
Max. input voltage ²	1,100 V					
Operating voltage range ³	140 V ~ 980 V					
Start-up voltage	200 V					
Rated input voltage	600 V					
Max. input current per MPPT	11 A					
Max. short-circuit current	15 A					
Number of MPP trackers	2					
Max. input number per MPP tracker	1					

Input (DC Battery)						
Compatible Battery	HUAWEI Smart String ESS 5kWh - 30kWh					
Operating voltage range	600 V ~ 980 V					
Max operating current	16 A					
Max charge Power	10,000 W					
Max discharge Power	3,300 W	4,400 W	5,500 W	6,600 W	8,800 W	10,000 W

Versión M1 High Current

Input (PV)						
	4,500 Wp	6,000 Wp	7,500 Wp	9,000 Wp	12,000 Wp	15,000 Wp
Recommended max. PV power ¹	4,500 Wp	6,000 Wp	7,500 Wp	9,000 Wp	12,000 Wp	15,000 Wp
Max. input voltage ²	1,100 V					
Operating voltage range ³	140 V ~ 980 V					
Start-up voltage	200 V					
Rated input voltage	600 V					
Max. input current per MPPT	13.5 A					
Max. short-circuit current	19.5 A					
Number of MPP trackers	2					
Max. input number per MPP tracker	1					

Input (DC Battery)						
Compatible Battery	HUAWEI Smart String ESS 5kWh - 30kWh					
Operating voltage range	600 V ~ 980 V					
Max operating current	16.7 A					
Max charge Power	10,000 W					
Max discharge Power	3,300 W	4,400 W	5,500 W	6,600 W	8,800 W	10,000 W





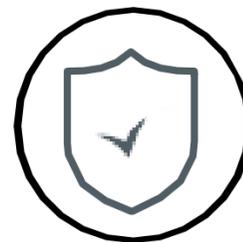
Inversor Huawei de 12 a 25kW

SUN2000-12/15/17/20/25KTL-M5



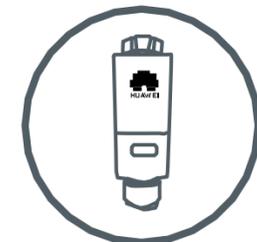
Rendimientos más altos

Hasta un 30 % más de energía con Optimizador



Seguridad Activa

2 Motorizado con IA
Protección activa contra arcos



Comunicación flexible

WLAN, Fast Ethernet,
compatible comunicación 4G

Ficha técnica

SUN2000-12/15/17/20/25KTL-M5 Technical Specification

Technical Specification	SUN2000 -12KTL-M5	SUN2000 -15KTL-M5	SUN2000 -17KTL-M5	SUN2000 -20KTL-M5	SUN2000 -25KTL-M5
Efficiency					
Max. efficiency	98.4%	98.4%	98.4%	98.4%	98.4%
European weighted efficiency	97.9%	98.0%	98.1%	98.1%	98.2%
Input					
Recommended max. PV power ¹	18,000 Wp	22,500 Wp	25,500 Wp	30,000 Wp	37,500 Wp
Max. input voltage ²	1100 V				
Full-load MPPT voltage range	370V~800V	410V~800V	440V~800V	480V~800V	530~800V
MPPT Operating voltage range ³	200 V ~ 1000 V				
Start-up voltage	200 V				
Rated input voltage	600 V				
Max. input current per MPPT	30 A (two string) / 20 A (single string)				
Max. short-circuit current	40 A				
Number of MPP trackers	2				
Max. number of inputs	4				
Output					
Grid connection	Three phase				
Rated output power	12,000 W	15,000 W	17,000 W	20,000 W	25,000 W
Max. apparent power	13,200 W	16,500 VA	18,700 VA	22,000 VA	27,500 VA
Rated output voltage	220 Vac / 380 Vac, 230 Vac / 400 Vac, 239.6 Vac / 415Vac, 3W + N + PE				
Rated AC grid frequency	50 Hz / 60 Hz				
Max. output current	18.2A/380Vac 17.3A/400Vac 16.7A/415Vac	25.2A/380Vac 23.9A/400Vac 23.1A/415Vac	28.6A/380Vac 27.1A/400Vac 26.1A/415Vac	33.6A/380Vac 31.9A/400Vac 30.8A/415Vac	42.0A/380Vac 39.9A/400Vac 38.5A/415Vac
Adjustable power factor	0.8 leading ... 0.8 lagging				
Max. total harmonic distortion	≤ 3 %				
Features & Protections					
Overvoltage Category	PV II/AC III				
Input-side disconnection device	Yes				
Anti-islanding protection	Yes				
AC over-current protection	Yes				
DC reverse-polarity protection	Yes				
String fault detection	Yes				
DC surge protection	TYPE II				
AC surge protection	CLASS II				
Residual current monitoring unit	Yes				
Arc fault protection	Yes				
Ripple control	Yes				
Integrated PID recovery ⁴	Yes				
General Data					
Operation temperature range	-25 ~ + 60 °C (-13 °F ~ 140 °F)				
Relative humidity	0 % RH ~ 100% RH				
Max. operating altitude	0 ~ 4,000 m (13,123 ft.) (Derating above 2000 m)				
Cooling	Smart air cooling				
Display	LED Indicators; Integrated WLAN + FusionSolar App				
Communication	RS485; WLAN/Ethernet via Smart Dongle-WLAN-FE (Optional) 4G / 3G / 2G via Smart Dongle-4G (Optional)				
Weight (with mounting plate)	21kg (46.4 lb)				
Dimensions (W x H x D) (incl. mounting plate)	546 x 460 x 228mm (21.5 x 18.1 x 9.0 inch)				
Degree of protection	IP66				





Inversor Huawei de 50kW

SUN2000-50KTL-M3



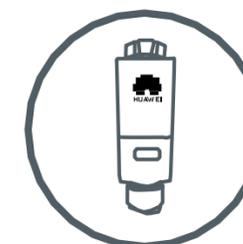
Rendimientos más altos

Hasta un 30 % más de energía con Optimizador



Seguridad Activa

Motorizado con IA
Protección activa contra arcos



Comunicación flexible

WLAN, Fast Ethernet,
compatible comunicación 4G

Ficha técnica

Technical Specification		SUN2000-50KTL-M3
Efficiency		
Max.Efficiency		98.5
EuropeanEfficiency		%
		98.0
Input		
Max.InputVoltage1		1,100V
Max. Current perMPPT		30A
Max. Current perInput		20 A
Max. Short Circuit Current perMPPT		40A
StartVoltage		200V
MPPTOperatingVoltageRange2		200 V ~ 1,000V
Rated InputVoltage		600V
Number ofInputs		8
Number of MPPTTrackers		4
Output		
Rated AC ActivePower		50,000W
Max. AC ApparentPower		55,000VA
Max. AC Active Power(cosφ=1)		55,000W
Rated OutputVoltage		400 Vac/ 480 Vac, 3W+(N) + PE
Rated AC GridFrequency		50 Hz / 60Hz
Rated OutputCurrent		72.2 A @ 400Vac, 60.1 A @
Max. OutputCurrent		480Vac 79.8 A @ 400Vac, 66.5 A
Adjustable Power FactorRange		@ 480Vac
Max. Total HarmonicDistortion		0.8 LG ... 0.8LD
		<3%
Protection		
Input-side DisconnectionDevice		Yes
Anti-islandingProtection		Yes
AC OvercurrentProtection		Yes
DC Reverse-polarityProtection PV-array String FaultMonitoring DC		Yes
SurgeArrester		Yes
AC SurgeArrester		TypeII
DC Insulation ResistanceDetection		TypeII
Residual Current MonitoringUnit		Yes
ArcFaultProtection		Yes
Ripple ReceiverControl		Yes
Integrated PIDRecovery3		Yes
Communication		
Display		LED Indicators, Bluetooth + APP
RS485		Yes
SmartDongle		WLAN/EthernetviaSmartDongle-WLAN-FE(Optional)
Monitoring BUS(MBUS)		4G/3G/2GviaSmartDongle-4G(Optional)
		Yes(IsolationTransformerrequired)





Inversor Huawei de 100kW

SUN2000-100KTL-M2



10

Rastreadores de MPP



98,8 % (@480 V)
máx. Eficiencia



Gestión a Nivel
de String



Diagnóstico inteligente de curva IV
Soportado



MBUS
Soportado



Desconector Inteligente
a nivel de Cadena



Pararrayos para
CC y CA



IP66
Proteccion

SUN2000-100KTL-M2
Technical Specification

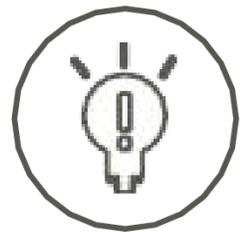
Technical Specification		SUN2000-100KTL-M2
Efficiency		
Max. efficiency		98.6% @ 400 V, 98.8% @ 480 V
European efficiency		98.4% @ 400 V, 98.6% @ 480 V
Input		
Max. Input Voltage ¹		1,100 V
Max. Current per MPPT		30 A
Max. Current per Input		20 A
Max. Short Circuit Current per MPPT		40 A
Start Voltage		200 V
MPPT Operating Voltage Range ²		200 V ~ 1,000 V
Nominal Input Voltage		600 V @ 400 Vac, 720 V @ 480 Vac
Number of MPP trackers		10
Max. input number per MPP tracker		2
Output		
Nominal AC Active Power		100,000 W
Max. AC Apparent Power		110,000 VA
Max. AC Active Power (cosφ=1)		110,000 W
Nominal Output Voltage		400 V / 480 V, 3W+(N)+PE
Rated AC Grid Frequency		50 Hz / 60 Hz
Nominal Output Current		144.4 A @ 400 V, 120.3 A @ 480 V
Max. Output Current		160.4 A @ 400 V, 133.7 A @ 480 V
Adjustable Power Factor Range		0.8 leading... 0.8 lagging
Max. Total Harmonic Distortion		< 3%
Protection		
Input-side Disconnection Device		Yes
Anti-islanding Protection		Yes
AC Overcurrent Protection		Yes
DC Reverse-polarity Protection		Yes
PV-array String Fault Monitoring		Yes
DC Surge Arrester		Type II
AC Surge Arrester		Type II
DC Insulation Resistance Detection		Yes
Residual Current Monitoring Unit		Yes
Arc Fault Protection		Yes
Smart String Level Disconnect		Yes
Communication		
Display		LED indicators; WLAN adaptor + FusionSolar APP
RS485		Yes
USB		Yes
Smart Dongle-4G		4G / 3G / 2G via Smart Dongle - 4G (Optional)
Monitoring BUS (MBUS)		Yes (isolation transformer required)



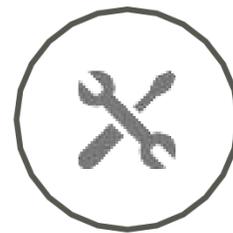


Baterías de Litio de 200kWh

LUNA2000-200KWH-2H1



Más Energía



Sencillo O&M



Seguro y Confiable

Energy Storage System Parameters

Battery Configuration	12S1P
Maximum battery capacity of the energy storage system	193.5 kWh
Rated Power	100 kW
Dimensions (W x H x D), including DC/DC and PCS	2570mm×2135mm×1200mm
Dimensions (W x H x D)	1810mm×2135mm×1200mm
Weight (including the battery module)	≤2950kg
Weight (without the battery module)	≤1070kg
Operating temperature range	-30 °C ~ 55 °C
Storage temperature range	-40 °C ~ 60 °C
Operating humidity range	0 ~ 100% (non-condensing)
Maximum operating altitude	4,000 m
Battery temperature control mode	Industrial-grade air conditioner
Fire suppression of energy storage system	YES
Auxiliary Power Supply	220Vac, ≤4.2kVA
Communication port	Ethernet / SFP
Communication protocol	Modbus TCP
Protection degree	IP55
EMC Protection Rating	Class
DC Lightning Protection	Type II



LUNA2000-200KWH-2H1

Battery Pack

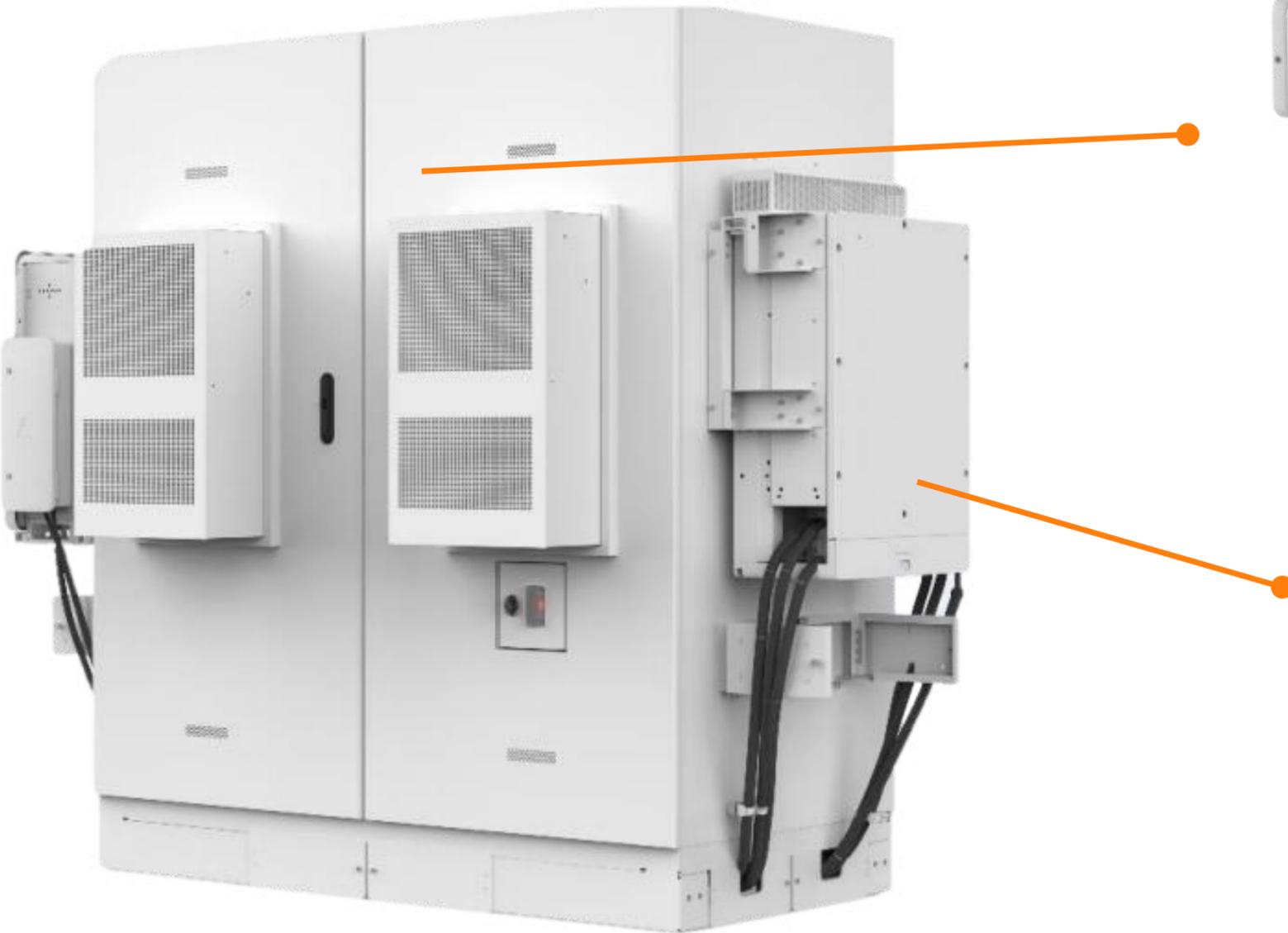


Battery Pack	
General	
Cell Material	LFP
Rated Voltage	57.6 V
Nominal Capacity	16.13kWh
Supported Charge & Discharge Rate	≤0.5 C
Weight	≤ 140 kg
Dimensions (W x H x D)	442 x 308 x 660 mm

Smart Rack Controller



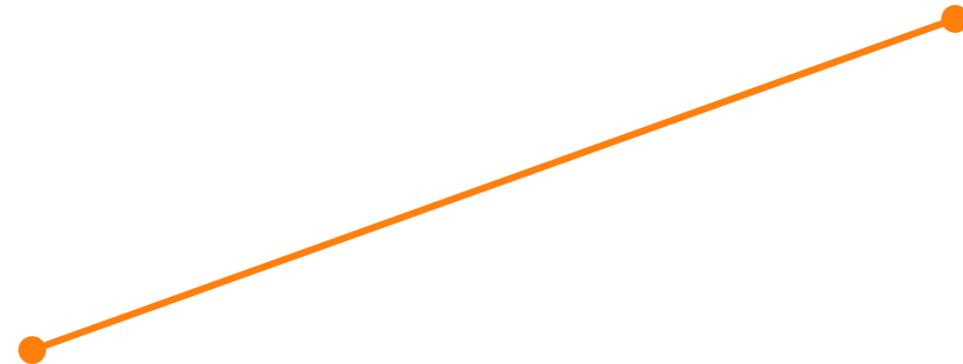
Smart Rack Controller	
Efficiency	
Max. Efficiency	99.0%
Battery Side	
Rated Voltage	691.2@280Ah
Operating Voltage Range	40 V ~ 1,050 V
Min. Start Voltage	350 V
Bus Side	
Max. DC Voltage	1,100 V
Rated Voltage	665 V
Rated Current	76.3 A
General	
Dimensions (W x H x D)	600 x 270 x 820 mm
Weight	≤ 90 kg
Cooling Method	Smart Air Cooling
Protection Degree	IP66



Smart PCS

LUNA2000-100KTL-M1

LUNA2000-200KWH-2H1



Pararrayos para
CC y CA



Diseño modular



Protección
IP66



Comunicación
Ethernet



Algoritmo
inteligente de Red

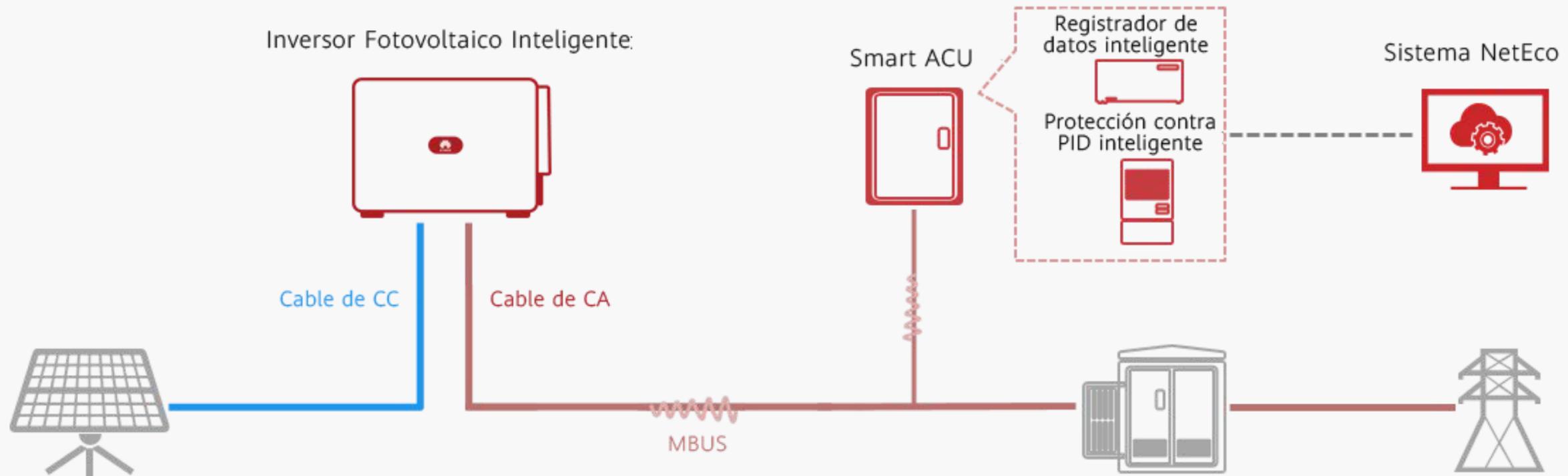


SOLUCIONES PMGD

HUAWEI 2023



Solución PMGD Huawei



Inversor SUN2000-330KTL-H1



6
MPP Trackers



99.0%
Max.Eficiencia



String-level
Management



Soporte de
Diganostico
Inteligente de
Curva IV



Soporta MBUS



Diseño Libre de
Fusible



Protector contra
sobretensiones
para DC y AC

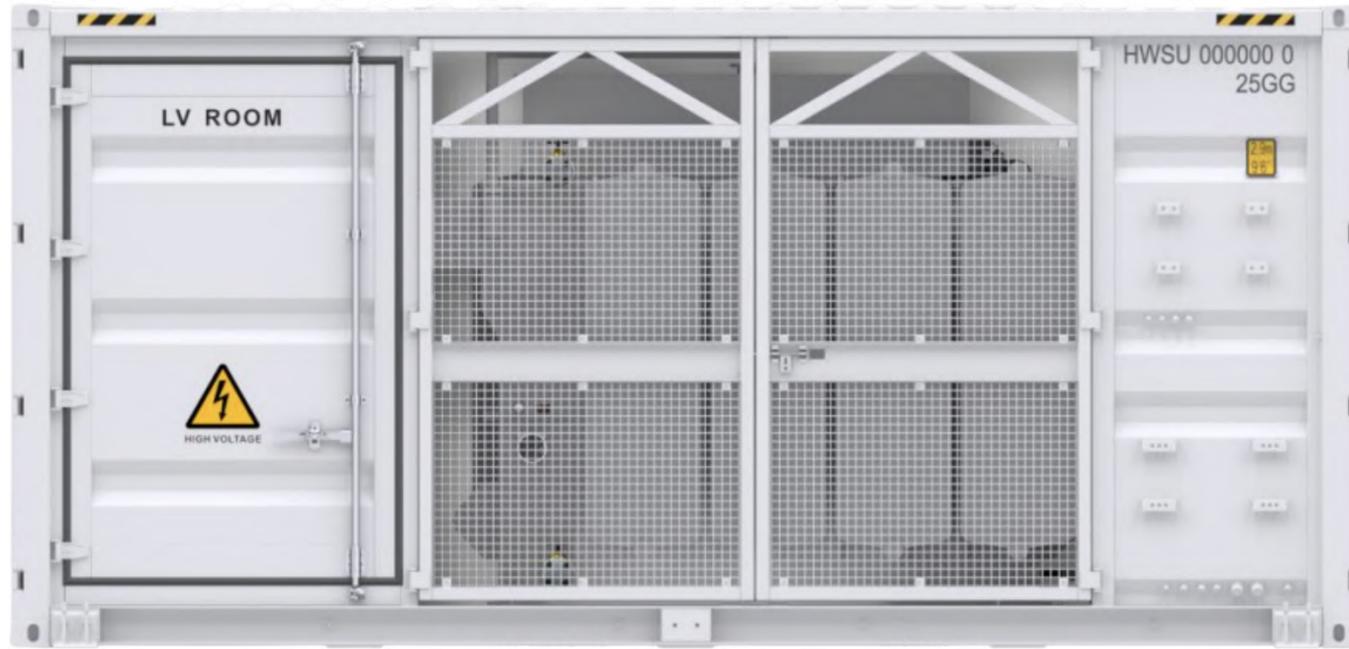


Protección IP66

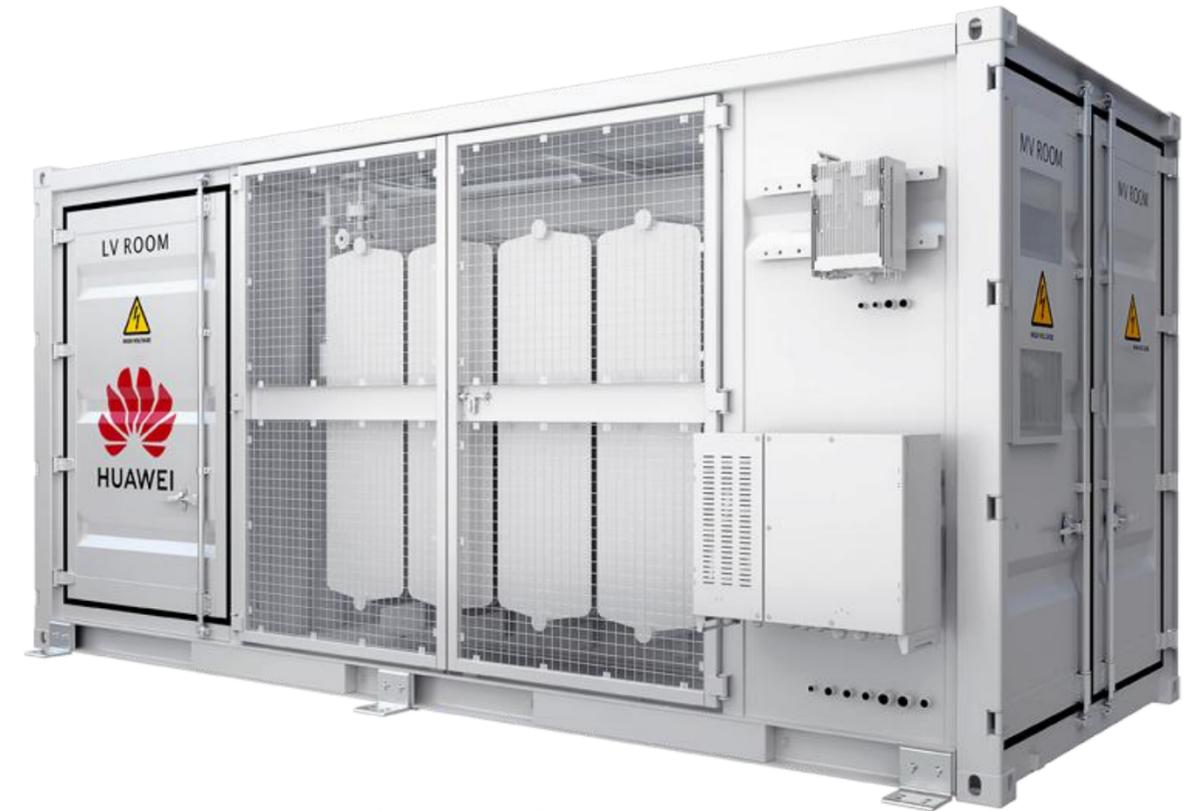


Soluciones diseñadas para
proteger los módulos
fotovoltaicos de PID

Smart Transformer Station



STS-3000K-H1

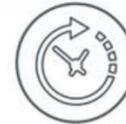


STS-6000K-H1



Simple

Prefabricado y preprobado, no se necesita cableado interno en el sitio. Diseño de contenedor compacto de 20' High Cube para fácil transporte



Eficiente

Transformador de alta eficiencia para mayores rendimientos. Menor autoconsumo para mayores rendimientos



Inteligente

Monitoreo en tiempo real del transformador, Sensor de alta precisión de parámetros eléctricos de bajo voltaje en el panel LV y RMU. Control remoto de ACB y el disyuntor MV



Confiable

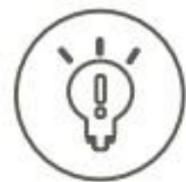
Diseño robusto contra entornos hostiles
Diseño de enfriamiento óptimo para alta disponibilidad y fácil operación y mantenimiento

Smart String ESS

LUNA2000-2.0MWH-1H0/1H1/2H1



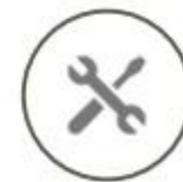
**2.0MWH de
Almacenamiento**



Más energía



Inversión Óptima



**Sencilla Operación
y mantenimiento**



Segura y confiable



CASOS DE ÉXITO

PMGD HUAWEI EN CHILE

Proyecto Teno, Región del Maule

- Fecha de Conexión: 20/05/2022
- Generación Anual: 16.352 MWh
- Generación Promedio Mensual: 1.360MWh
- Potencia nominal: 7.400 kW
- Potencia peak: 8.190 kWp



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SOLUCIONES Y NOVEDADES 2023

NUEVO SERVICIO

Stickers y Rótulos para Proyectos Fotovoltaicos



Requerimientos estipulados en la norma técnica RGR N°02/2020 y los pliegos técnicos RIC



Paneles Solares



Trinasolar JA SOLAR

¡DESCUENTO ESPECIAL!

-  *Trina Solar 395Wp*
-  *Trina Solar 500Wp*
-  *JA Solar 460Wp*



Estructura

Nuevos Rieles de Aluminio
Lowcost para estructura

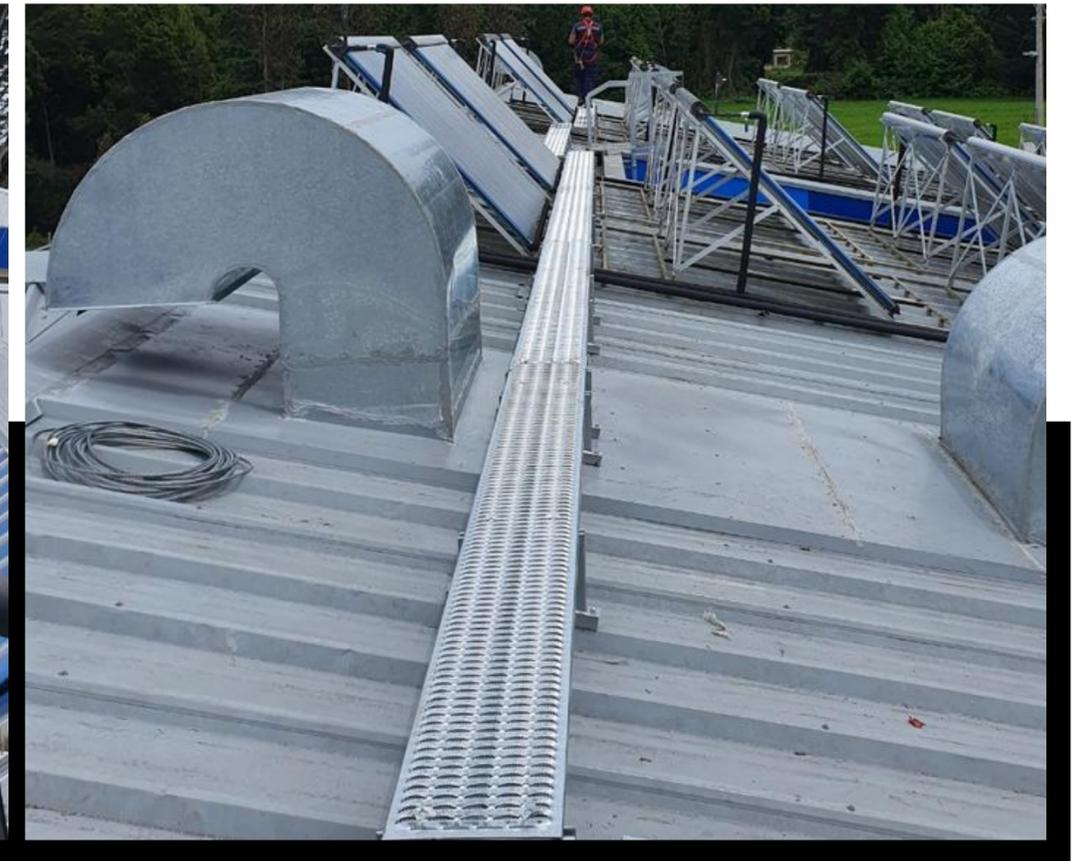


Tuercas Antirrobo
M6 y M8



Nuevos

Convencionales



Pasillo Técnico



Cable Solar

Prysmian Group

Cable AC

Cables de Aluminio

**Cables CC lvi 2
Subterráneos**

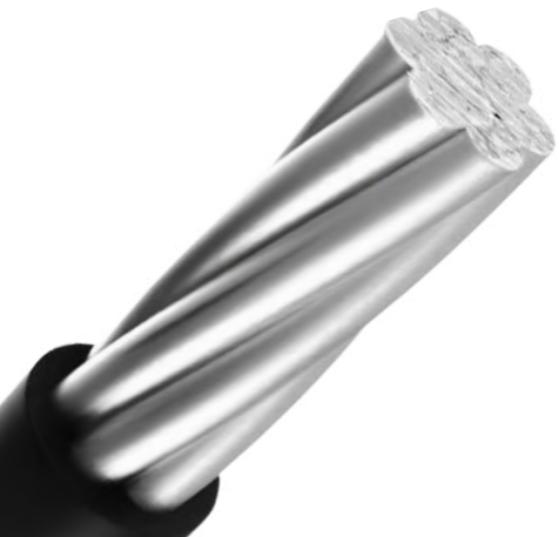
Cond. Al Subt. 12 mm² 1KV

**Cables CA MT
Súbterrneos**

Cond. Al TR-XLPE 120mm² 19H
25KV

**Cables CA MT
Aéreos**

Cond. Al 125, 1mm², Alliance



Visita nuestro Nuevo Showroom

Solución Híbrida Trifásica Huawei



- Equipos en Funcionamiento
- Capacitación Gratuita a nuestros clientes
- Asesoramiento



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