

NUEVO INVERSOR HÍBRIDO

Descubre la **innovación y desarrollo**
con el último modelo

Expositor:

Camilo Reyes

Director de área técnica e ingeniería



Presentación

Líderes mundiales en el desarrollo, fabricación y distribución de productos de energía solar de la línea off grid. Con presencia en más de **150 países**, han construido una reputación basada en la calidad, la innovación y el compromiso con la sostenibilidad.

● 2008 - 2015

Inicio

- El equipo fundador se creó en 2008 y la empresa SRNE se fundó en 2009.
- Se dedica al desarrollo, la producción y la venta de controladores de energía solar.

2016 - 2019

Desarrollo

- En el año 2017, establecimiento de la línea de productos de equipos de almacenamiento de energía de microred, dedicada a la investigación y el desarrollo, la producción y la venta de productos de inversores de almacenamiento de energía fotovoltaica.

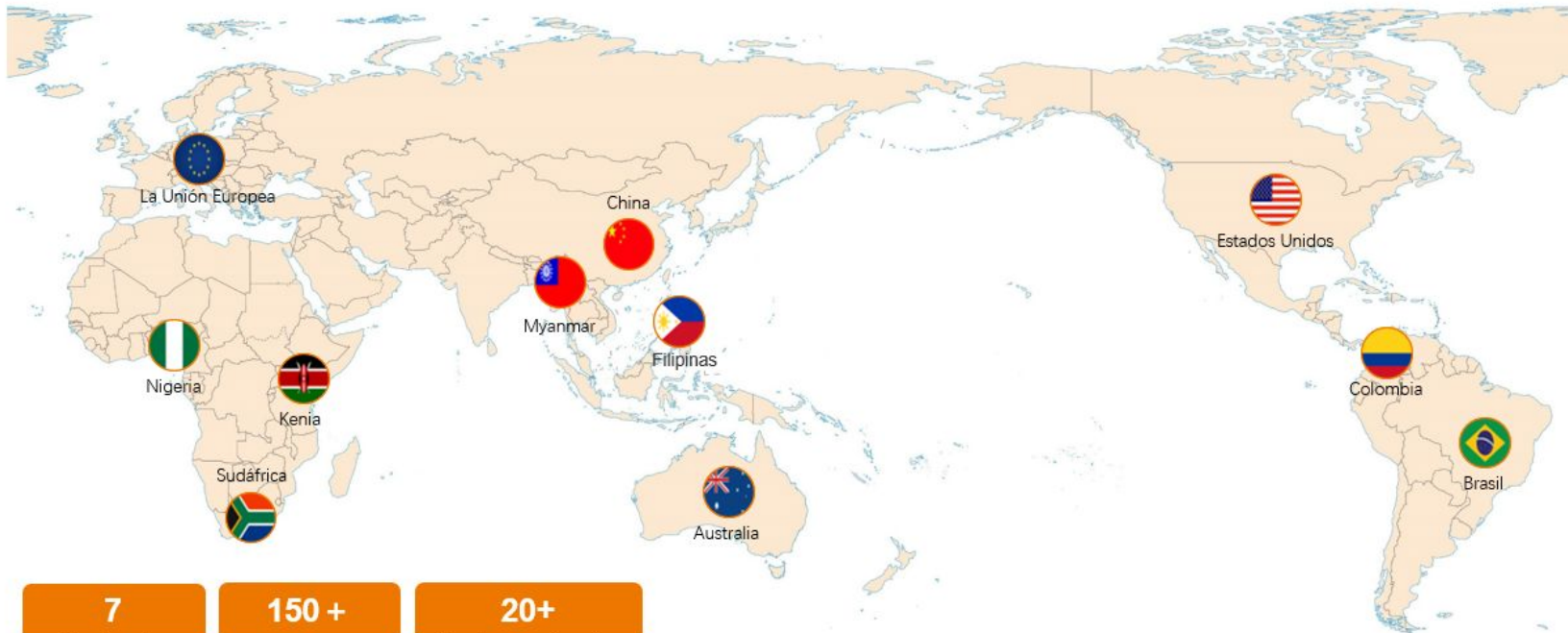
2020 - 2023

Oportunidad

- Estableció la línea de productos de sistemas de almacenamiento de energía para dedicarse al desarrollo, producción y venta de productos de sistemas de almacenamiento de energía domésticos
- La línea de productos de controladores solares inició la I+D, producción y venta de productos de sistemas de distribución de energía Caravana



SRNE en el mundo



7

Equipo de marketing

150 +

País de venta

20+

Centros nacionales de servicios

SRNE en el mundo



**Modelo de producción
ajustada**

40000+M²
Área de
Fábrica

**1,1 millones
unidades**

Controlador solar

**100 mil
unidades**

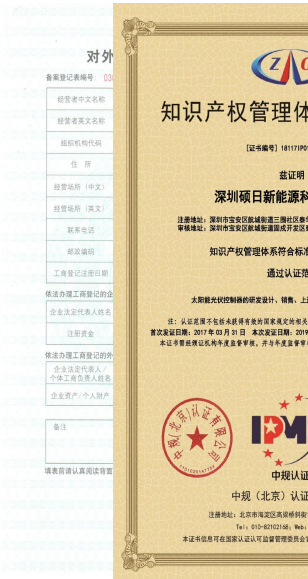
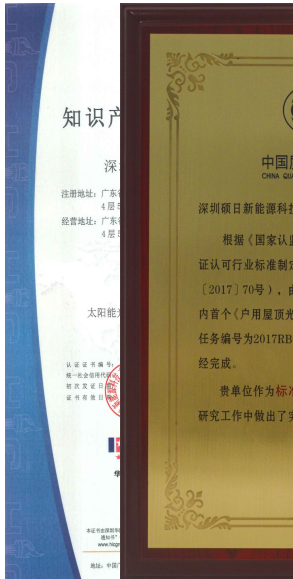
Inversor solar

**100 mil
unidades**

Sistema de
almacenamiento
energético

Certificaciones

Todos los productos han superado las pruebas de las normas aplicables, y en el campo de las nuevas energías, han superado la certificación **CE/UL/IEC/CB/UN38.3/FCC/LOA**, etc., para garantizar la especificación de seguridad de los productos.



En Colombia, **Cosostenible** es la única compañía certificada por RETIE en el ámbito de inversores y cargadores.



Costenible ha formado una alianza estratégica con SRNE desde hace 8 años





SRNE 硕日

光伏储能管控专家



SRNE 硕日



Panorama eléctrico en Colombia

● Dependencia del agua:

Colombia, que depende en gran medida de la energía hidroeléctrica (alrededor del 65% de su capacidad instalada), está sufriendo sequías severas debido al fenómeno de El Niño y al cambio climático.

● Incremento en la demanda energética:

A medida que la población y la industria crecen, la demanda de energía ha superado las capacidades de generación.

● Limitaciones en la generación térmica:

Aunque las centrales termoeléctricas han proporcionado respaldo en la generación de energía, su funcionamiento depende del carbón y el gas natural, que son cuestionados por su impacto ambiental.



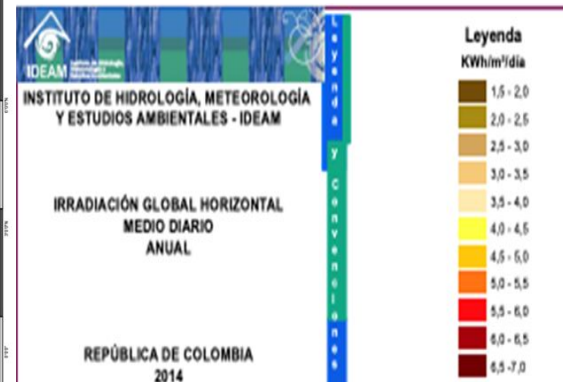
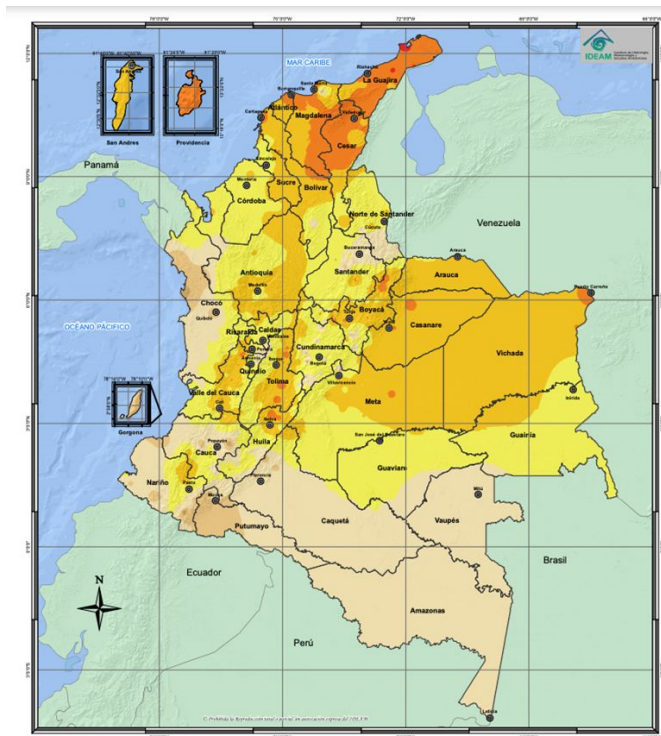
La transición energética en Colombia

Diversificación de la matriz energética

Gracias a su ubicación geográfica cerca del ecuador, la **radiación solar promedio** oscila entre **4,0 y 6,5 kWh/m² por día** en la mayor parte del país

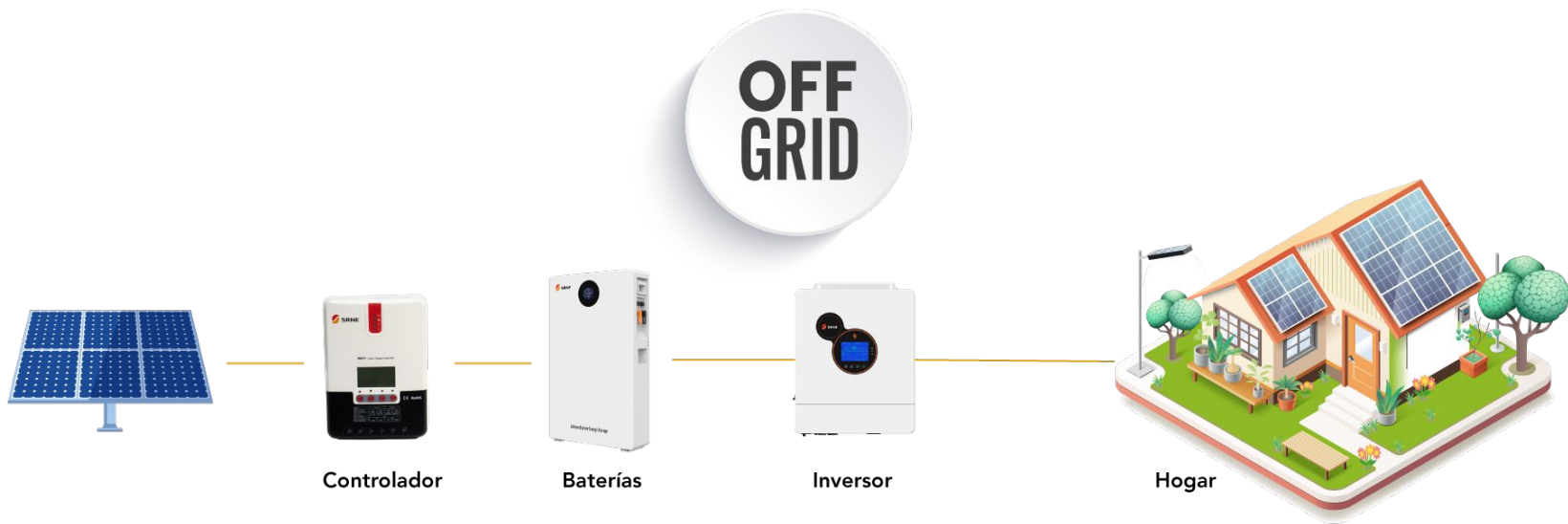
Acceso a energía en zonas rurales

A nivel nacional, cerca de **9,8 millones de personas** viven en situación de **pobreza energética**.



¿Qué es un sistema fotovoltaico Off-grid?

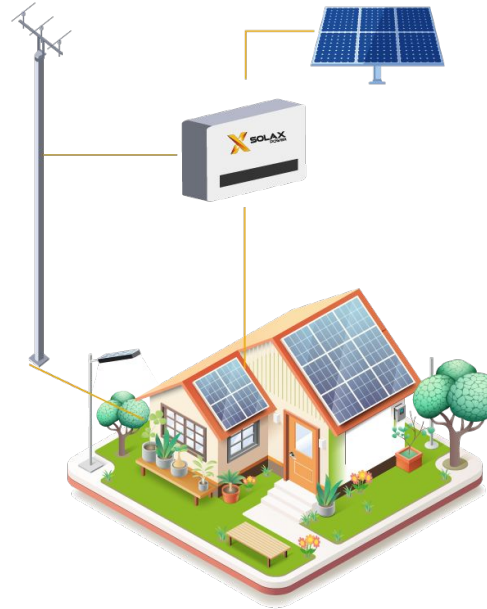
Un sistema fotovoltaico off-grid es un sistema de energía solar independiente que no está conectado a la red eléctrica principal.



¿Qué es un sistema fotovoltaico On-grid?

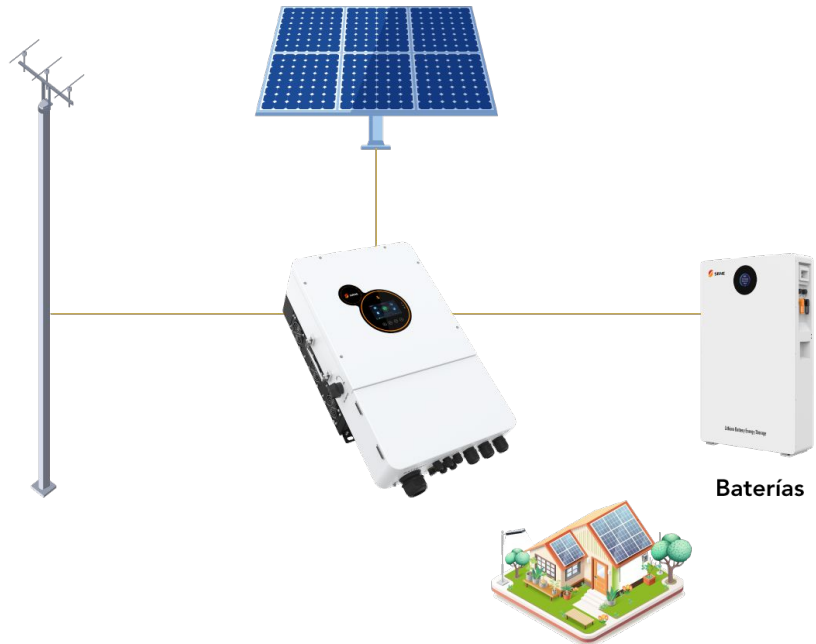
Un sistema fotovoltaico on grid es una instalación de paneles solares conectada directamente a la red eléctrica.

**ON
GRID**



¿Qué es un sistema fotovoltaico de inyección?

Un sistema fotovoltaico de inyección es un sistema que convierte la energía solar en electricidad y la inyecta directamente a la red eléctrica.



Línea de controladores solares



**MPPT
ML Serie**
12/24V -20/30/40A-VOC100V
12/24/36/48V -60A-VOC150V



**MPPT
MF4860N15**
12/24/36/48V-60A-VOC150V

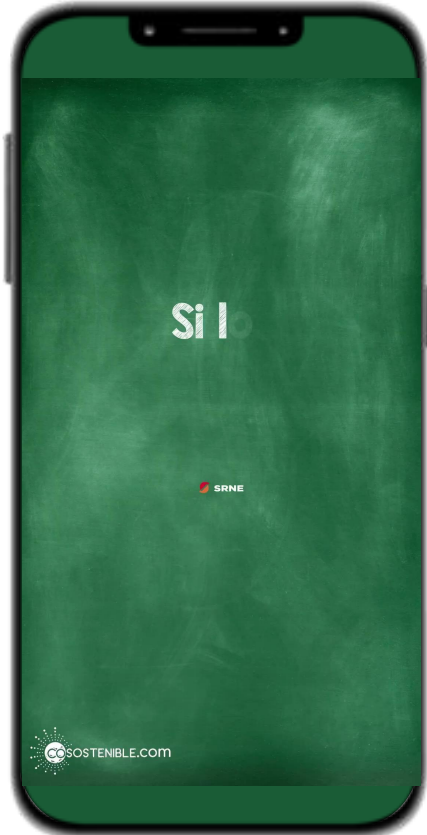


**MPPT
MC 24V Serie**
12/24V-20/30/40/50A-VOC100V



**MPPT
Shiner**
12/24V -10/20A-VOC 60V
12/24V -30/40/60A-VOC 100V

Comparación entre Shiner y ML



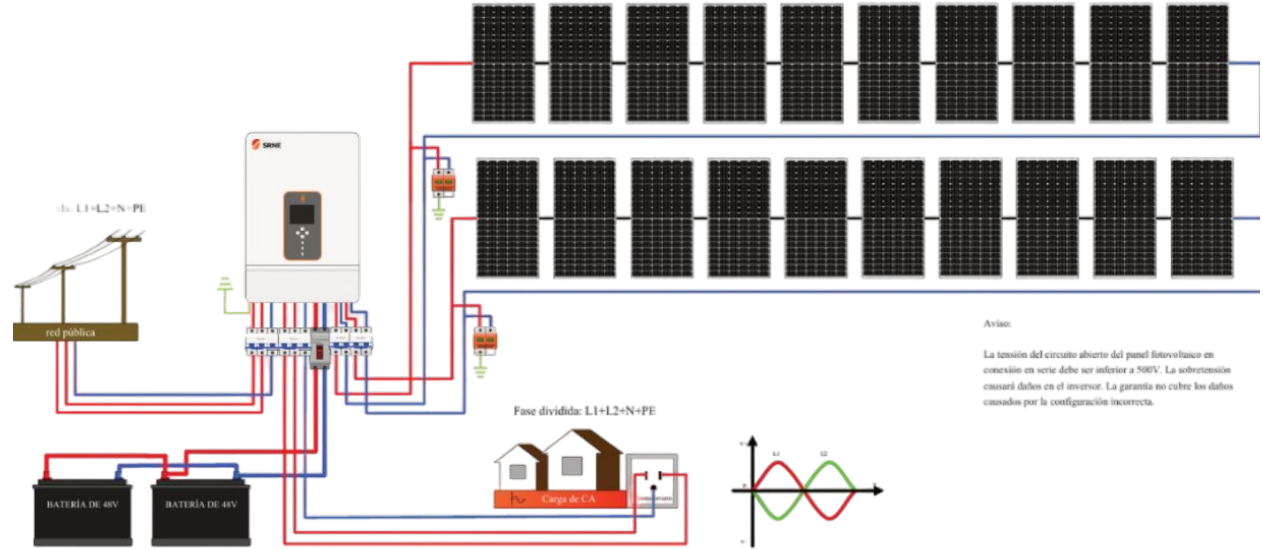
@Cosostenible

Generalidades off grid

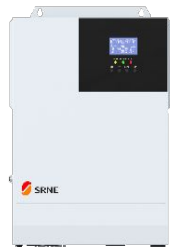


Alta Frecuencia

3KW, 3,5KW, 5KW, 10KW



Línea de inversores solares



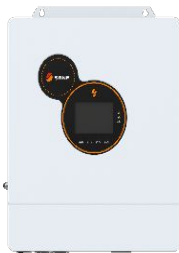
Serie HF

- Off Grid
- 24V/48V
- 3 - 3.5Kw



Serie HFP

- Off Grid
- 24V/48V
- 3-5Kw



Serie HYP

- Off Grid
- 48V
- 5Kw



Serie ASF

- Off Grid
- 48V
- 8-12Kw
- Fase dividida / trifásico

LÍNEA DE PRODUCTO HF (3KW)



HF Series



MODEL	HF4835U80-145	HF4830U60-145	HF2430U60-100	CAN BE SET
INVERTER OUTPUT				
Rated Output Power	3,500W	3,000W	3,000W	
Max.Peak Power	6,000VA			
Rated Output Voltage	120Vac (L/N/PE single phase)			√
Load Capacity of Motors	2HP			
Rated AC Frequency	50Hz/60Hz			
Waveform	Pure Sine Wave			
Switch Time	10ms (typical)			
BATTERY				
Battery Type	Li-ion/Lead-Acid/User Defined			√
Rated Battery Voltage	48Vdc		24Vdc	
Voltage Range	40-60Vdc		20-33Vdc	√
Max.MPPT Charging Current	80A		60A	√
Max.Mains/Generator Charging Current		40A		√
Max.Hybrid Charging Current	120A		100A	√
PV INPUT				
Num. of MPPT Trackers		1		
Max.PV Array Power	4,400W	3,400W	1,600W	
Max.Input Current	50A		40A	
Max.Voltage of Open Circuit		145Vdc	100Vdc	
MPPT Voltage Range		60-115Vdc	30-85Vdc	
MAINS/GENERATOR INPUT				
Input Voltage Range		90-140Vac		√
Frequency Range		50Hz/60Hz		√
Bypass Overload Current		40A		
EFFICIENCY				
MPPT Tracking Efficiency		99.9%		
Max. Battery Inverter Efficiency		92%		
GENERAL				
Dimensions	426*322*124mm (1.31*0.4ft)	378*280*103mm (1.2*0.9*0.3ft)		
Weight	10.8kg (23.8lb)	6.2kg (13.6lb)	6.8kg (14.9lb)	
Protection Degree		IP20, Indoor Only		
Operating Temperature Range		-15°C-55°C (5°F-55°F)		
Noise		<60dB		
Cooling Method		Internal Fan		
Warranty		2 years		
COMMUNICATION				
Embedded Interfaces	RS485/CAN/USB/Dry contact			
External Modules (Optional)	Wi-Fi/GPRS			



MODEL	HF4850U80-H	HF4835U60-H	HF2430U80-H	CAN BE SET
INVERTER OUTPUT				
Rated Output Power	5,000W	3,500W	3,000W	
Max.Peak Power	10,000VA	7,000VA	6,000VA	
Rated Output Voltage	120Vac (L/N/PE single phase)			√
Load Capacity of Motors	4HP	2HP	2HP	
Rated AC Frequency	50Hz/60Hz			
Waveform	Pure Sine Wave			
Switch Time	10ms (typical)			
BATTERY				
Battery Type	Li-ion/Lead-Acid/User Defined			√
Rated Battery Voltage	48Vdc		24Vdc	
Voltage Range	40-60Vdc		20-33Vdc	√
Max.MPPT Charging Current	80A	60A	80A	√
Max.Mains/Generator Charging Current		40A		√
Max.Hybrid Charging Current		80A		√
PV INPUT				
Num. of MPPT Trackers		1		
Max.PV Array Power	5,200W	4,400W	4,000W	
Max.Input Current		18A	13A	
Max.Voltage of Open Circuit		500Vdc		
MPPT Voltage Range		120-450Vdc		
MAINS/GENERATOR INPUT				
Input Voltage Range		90-140Vac		√
Frequency Range		50Hz/60Hz		√
Bypass Overload Current	40A	30A	40A	
EFFICIENCY				
MPPT Tracking Efficiency		99.9%		
Max. Battery Inverter Efficiency		92%		
GENERAL				
Dimensions	426*322*126mm (1.31*0.4ft)		378*280*103mm (1.2*0.9*0.3ft)	
Weight	10.9kg (24lb)		8kg (17.6lb)	
Protection Degree		IP20, Indoor Only		
Operating Temperature Range		-15°C-55°C (5°F-55°F)		
Noise		<60dB		
Cooling Method		Internal Fan		
Warranty		2 years		
COMMUNICATION				
Embedded Interfaces	RS485/CAN/USB/Dry contact			
External Modules (Optional)	Wi-Fi/GPRS			

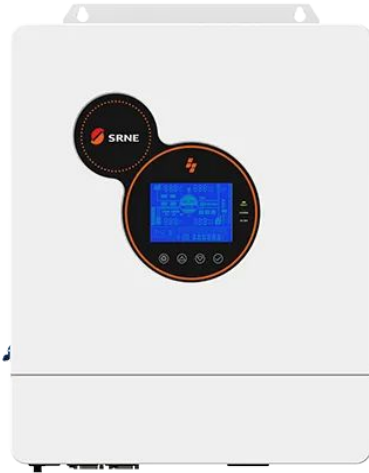
LÍNEA DE PRODUCTO HF (3.5KW)



HFP/HF Series

MODELO	HF4835U80-145	HFP4835U80-145
Potencia nominal de salida	3,500W	
Potencia Pico máxima	6,000VA	
Rated Output Voltage	120Vac (L/N/PE monofásico)	
Capacidad de carga de los motores	2HP	
Frecuencia nominal de CA	50Hz/60Hz	
Onda	Onda sinusoidal pura	
Capacidad de paralelo	N/A	6 unidades
Tiempo de Transferencia	10 ms(Típico)	
BATERÍA		
Tipo de batería	Litio/plomo-ácido/definido por el usuario	
Voltaje nominal de la batería	48Vdc	
Rango de voltaje	40~60Vdc	
Corriente de carga máx.MPPT	80A	
"Carga máx. de la red eléctrica/generador Actual"	40A	
Corriente de carga híbrida máxima	120A	
ENTRADA V		
Nº de rastreadores MPPT	1	
Potencia máxima de la matriz PV	4,400W	
Max.Corriente de entrada	50A	
Voltaje máximo de circuito abierto	145Vdc	
Rango de voltaje MPPT	60~115Vdc	
ENTRADA DE RED/GENERADOR		
Rango de voltaje de entrada	90~140Vac	
Rango de frecuencia	50Hz/60Hz	
Corriente de sobrecarga de derivación	40A	
ENTRADA V		
Eficiencia de seguimiento de MPPT	99,90%	
Eficiencia máxima del inversor de batería	92%	

LÍNEA DE PRODUCTO HF (5KW)



HYP Series



MODELO	HYP4850S100-H	PUEDA SER
SALIDA DEL INVERSOR		
Potencia de salida nominal	5.000W	
Potencia máxima máxima	10.000VA	
Tensión de salida nominal	110 ~ 120 Vac (L/N/PE monofásico)	✓
Capacidad de carga de los motores	4HP	
Frecuencia CA nominal	50/60Hz	✓
Forma de onda	Onda sinusoidal pura	
Cambiar hora	10 ms (típico)	
Capacidad paralela	1-6 unidades (monofásicas/trifásicas)	
BATERÍA		
Tipo de Batería	Li-ion / Lead-acid / user-define	✓
Voltaje nominal de la batería	48Vcc	
Rango de voltaje	40-60Vcc	✓
Corriente de carga máxima MPPT	100A	✓
Corriente de carga máxima de red/generador	60A	✓
Corriente de carga híbrida máxima	100A	✓
ENTRADA FV		
Núm. de rastreadores MPP	1	
Potencia máxima del conjunto fotovoltaico	5.500W	
Corriente de entrada máx.	22A	
Voltaje máximo de circuito abierto	500Vcc	
Rango de voltaje MPPT	120~450Vcc	
ENTRADA RED / GENERADOR		
Rango de voltaje de entrada	90~280Vca	
Rango de frecuencia	50/60Hz	
Corriente de sobrecarga de derivación	40A	
EFICIENCIA		
MPPT Tracking Efficiency	99,9%	
Max. Battery Inverter Efficiency	92%	
GENERAL		
Dimensiones	446,9*350*133mm	
Peso	13 kilos	
Grado de protección	IP20, solo interior	
Rango de temperatura de funcionamiento	-15 ~ 55 °C	
Ruido	<60dB	
Método de enfriamiento	ventilador inteligente	
Garantía	2 años	
COMUNICACIÓN		
Interfaces integradas	RS485/CAN/USB/contacto seco	✓
Módulos externos (opcionales)	Wifi/GPRS	✓
CERTIFICACIÓN		
Seguridad	CE (IEC62109-1)	
CEM	EN61000	
RoHS	Sí	

LÍNEA DE PRODUCTO ASF (10KW)

MODEL	ASF4880U180-H	ASF48100U200-H
INVERTER OUTPUT		
Rated Output Power	8,000W	10,000W
Max.Peak Power	16,000W	20,000W
Rated Output Voltage	120Vac (single phase L+N+PE) / 240Vac (split phase L1+L2+N+PE)	
Load Capacity of Motors	5HP	6HP
Rated AC Frequency	50/60Hz	
Waveform	Pure Sine Wave	
Switch Time	10ms (typical)	
Parallel capacity	/	
Output Mode	Off-grid (default) / Hybrid	
BATTERY		
Battery Type	Li-ion / Lead-Acid / User Defined	
Rated Battery Voltage	48Vdc	
Voltage Range	40~60Vdc	
Max.MPPT Charging Current	180A	200A
Max.Mains/Generator Charging Current	100A	120A
Max.Hybrid Charging Current	180A	200A
PV INPUT		
Num. of MPP Trackers	2	
Max.PV array power	5,500W + 5,500W	
Max.input current	22A + 22A	
Max.Voltage of Open Circuit	500Vdc + 500Vdc	
MPPT Voltage Range	125~425Vdc	
MAINS / GENERATOR INPUT		
Input Voltage Range	90~140Vac	
Frequency Range	50/60Hz	
Bypass Overload Current	63A	
EFFICIENCY		
MPPT Tracking Efficiency	99.9%	
Max. Battery Inverter Efficiency	92%	



LÍNEA DE PRODUCTO ASP (10KW)



ASP Series

Hasta 6 unidades en paralelo

Model	ASP4860U180-H	ASP48100U200-H	
Inverter output			
Rated Output Power	8,000W	10,000W	
Max. Output Power	16,000VA	20,000VA	
Rated Output Voltage	120Vac, single-phase/240Vac, split-phase		
Load capacity of Motors	5HP	6HP	
Rated AC Frequency	50/60Hz		
Waveform	Pure sine wave		
Output Mode	Off-grid (default) / power the load without battery		
Switch Time	10ms (typical)		
BATTERY			
Battery Type	Li-ion / Lead-acid / User-defined		
Rated Battery Voltage	48V		
Battery Voltage Range	40~60Vdc		
Max. Solar Charging Current	180A	200A	
Max. Grid/Generator Charging Current	100A	120A	
Max. Hybrid Charging Current	180A	200A	
SOLAR INPUT			
No. Of MPPT	2		
Max. PV Array Power	5,500W+5,500W		
Max. Input Current	22A+22A		
Max. Open Circuit Voltage	500Vdc+500Vdc		
MPPT Voltage Range	125~425Vdc		
GRID/GENERATOR INPUT			
Input Voltage Range	90-140Vdc		
Input Frequency Range	50/60Hz		
Bypass Overload Current	63A		
EFFICIENCY			
MPPT Tracking Efficiency	99.9%		
Max. Efficiency	92%		
GENERAL DATA			
Parallel Capacity	1~6 Units (More than 3 units in parallel can form a three-phase output)		
Dimension	620*445*130mm	Noise	<60dB
Weight	27kg	Cooling Method	Built-in fan
Protection Degree	IP20 Indoor Only	Warranty	2 years
Temperature	-10~55°C, >45°C Derate	Communication	RS485/CAN/USB/Dry Contact
External Module (Optional)	Wi-Fi/GPRS	Topology	Transformerless
Certificate	RoHS/EN61000-6-1/IEC61000-6-3/FCC Part15 ClassB/IEC62109-1/IEC62109-2/UL1741		
PROTECTION			
Has PV input current limiting protection, PV input over-voltage, PV night reverse current protection, AC input over-voltage protection, AC input under-voltage protection, Battery over-voltage protection, Battery under-voltage protection, Battery over-current protection, AC output short-circuit protection, Heat sink over-temperature protection, Inverter over-load protection.			



NUEVO INVERSOR HÍBRIDO

Descubre la **innovación y desarrollo**
con el último modelo



¿Qué es un inversor Híbrido?



LÍNEA DE PRODUCTO HESP



Model	HESP4880U200-H	HESP48100U200-H	HESP48120U200-H
AC OUTPUT (LOAD)			
Rated Output Power	8,800W	10,000W	12,000W
Max. Output Power	17,600VA	20,000VA	24,000VA
Rated Output Voltage	120/240Vac (Split-phase) 120/208V(Three-phase)		
Load Motor Capacity	5HP		6HP
Rated Frequency	50/60Hz ±0.3		
Switch Time	10ms (Typical)		
AC OUTPUT (GRID)			
Rated Output Power	8,800W	10,000W	12,000W
Max. Output Power	8,800VA	10,000VA	12,000VA
240V-Rated Output Current	36.6A	41.7A	50A
208V-Max. Output Current	42.3A	48.1A	50A
Power Factor	0.8 leading/0.8 lagging		
THD	<3%		
BATTERY			
Battery Type	Lead-Acid / Li-Ion / User-Define		
Rated Battery Voltage	48V		
Battery Voltage Range	40~60Vdc		
Max. Solar Charging Current	200A		
Max. Generator Charging Current	60A		
Max. Grid Charging Current	120A		
Max. Hybrid Charging Current	200A		
SOLAR INPUT			
No. Of MPPT	2		
Max. Input Power	5.5kW+5.5kW		6.6kW+6.6kW
Max. Input Current		25/25A	
Max. Short Circuit Current	37A/37A		
Max. Open Circuit Voltage	500Vdc+500Vdc		
MPPT Voltage Range	120-450Vdc		
GRID/GENERATOR INPUT			
Input Voltage Range	90-140Vac		
Input Frequency Range	50/60Hz		
Bypass Overload Current	63A		
EFFICIENCY			
MPPT Tracking Efficiency	99.9%		
Max. Efficiency	97.5%		
European Efficiency	97%		
GENERAL DATA			
Parallel Capacity	1~6 Units (More than 2 units in parallel can form a three-phase output)		
Dimension	750*440*240mm	Humidity	0~100%
Weight	42kg	Cooling Method	Fan Cooling
Protection Degree	IP65	Warranty	5 years
Temperature	-25~60°C, >45°C Derate	Communication	RS485/CAN/USB/Dry Contact
External Module (Optional)	Wi-Fi/GPRS	Topology	Transformerless
Certificate	UL1741&IEEE1547.1-2020,CEC, RULE 21, HECO,FCC 15 class B,RoHs		
PROTECTION			
PV Reverse Protection	Yes	Anti-Islanding Protection	Yes
Residual-Current Monitoring	Yes	Insulation Resistance Monitoring	Yes
Output Short-Circuit Protection	Yes	Output Over-Current Protection	Yes
Over-Voltage Protection	AC type II/DC type III	Surge Protection	AC type II/DC type II

LÍNEA DE PRODUCTO HESP



GENERAL DATA			
Parallel Capacity	1~6 Units (More than 2 units in parallel can form a three-phase output)		
Dimension	750*440*240mm	Humidity	0~100%
Weight	42kg	Cooling Method	Fan Cooling
Protection Degree	IP65	Warranty	5 years
Temperature	-25~60°C, >45°C Derate	Communication	RS485/CAN/USB/Dry Contact
External Module (Optional)	Wi-Fi/GPRS	Topology	Transformerless
Certificate	UL1741&IEEE1547.1-2020,CEC, RULE 21, HECO,FCC 15 class B,RoHs		
PROTECTION			
PV Reverse Protection	Yes	Anti-Islanding Protection	Yes
Residual-Current Monitoring	Yes	Insulation Resistance Monitoring	Yes
Output Short-Circuit Protection	Yes	Output Over-Current Protection	Yes
Over-Voltage Protection	AC type II/DC type III	Surge Protection	AC type II/DC type II

TEST REPORT CEC Guideline Performance Test Protocol for Evaluating Inverters Used in Grid-Connected Photovoltaic Systems	
Report Reference No.:	2309A1338SHA-001
Tested by (name + signature).....:	Leon Wu. <i>Leon Wu.</i>
Approved by (name + signature).....:	Sleif Sui <i>Sleif Sui</i>
Date of issue	2024-01-29
Testing Laboratory Name	Intertek Testing Services Shanghai Ltd.
Address	Building No. 86, 1198 Qinzhou Road (North) Shanghai 200233, China
Testing location / address	
Applicant's name	SRNE Solar Co., Ltd
Address	4-5F,13A Wutong Island,Neihuan Rd, Xixiang, Bao'an, SHENZHEN Guangdong 518100 China
Test specification:	
Standard	CEC Guideline
Test procedure	Performance Test Protocol for Evaluating Inverters Used in Grid-Connected Photovoltaic Systems (Draft): 2005
Non-standard test method	N/A
Test item description	Grid Support Utility Interactive Inverter (Non-Isolated inverter)
Model/Type reference	HESP followed by 4880, 48100 or 48120; followed by U200-H, SEI- followed by 8K, 10K or 12K; followed by -UP.
Software version control:	Firmware version used testing for CPU: V8.32



BUREAU
VERITAS

ATTESTATION of Conformity

BV LCIE CHINA Number	N°2466AS06CNDQ55276
Product	Solar Hybrid Inverter
Reference	HESP4880U200-H, HESP48100U200-H, HESP48120U200-H, SEI-8K-UP, SEI-10K-UP, SEI-12K-UP
Issued to	SRNE Solar Co.,Ltd
Address	4-5F, Building 13A, Taihua Wutong Industrial Park, Gushu Development Zone, Hangcheng Street, Baoan, Shenzhen, China PR
Manufacturer	SRNE Solar Co.,Ltd
Technical characteristics	See below table

The submitted sample of the above equipment has been tested according to following standards:

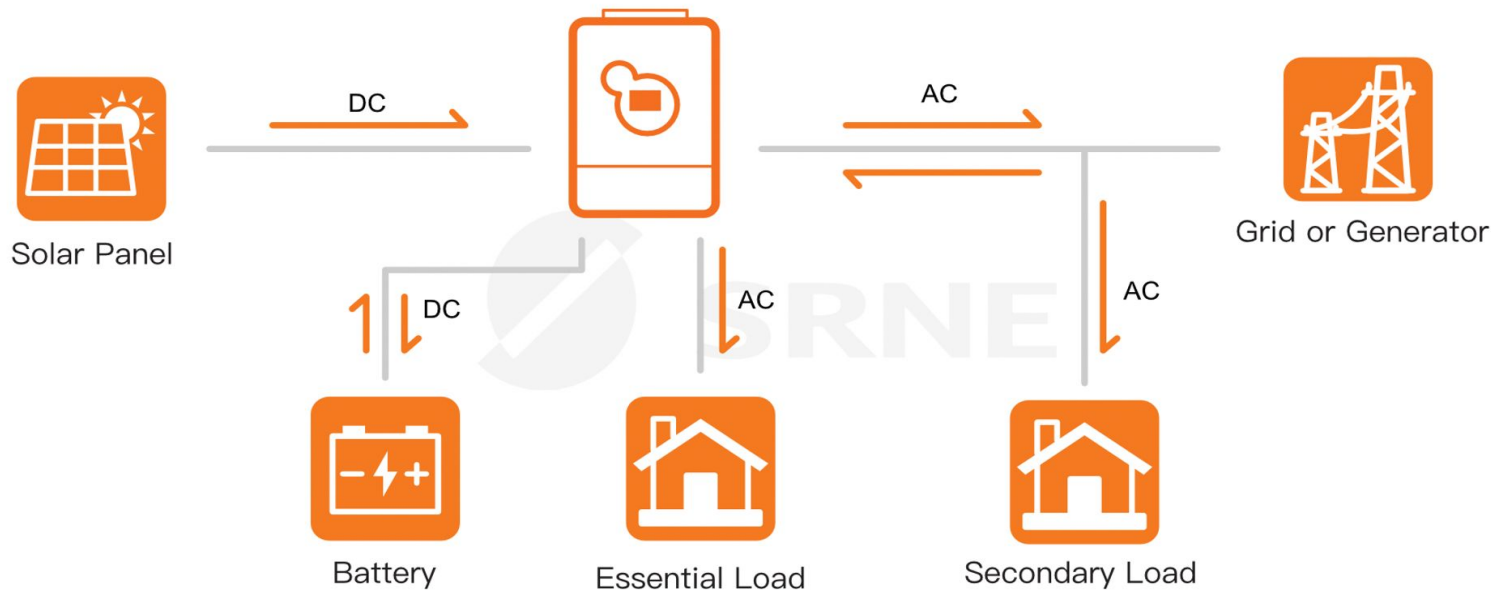
Standards	Report number	Report date
IEC 62116:2014	CNDQ-ESH-P24041869	2024-06-06
IEC 61727:2004	CNDQ-ESH-P24041870	2024-06-06

The referred test report(s) show that the product complies with standard(s) recognized as giving presumption of compliance
This verification does not imply assessment of the production of the product

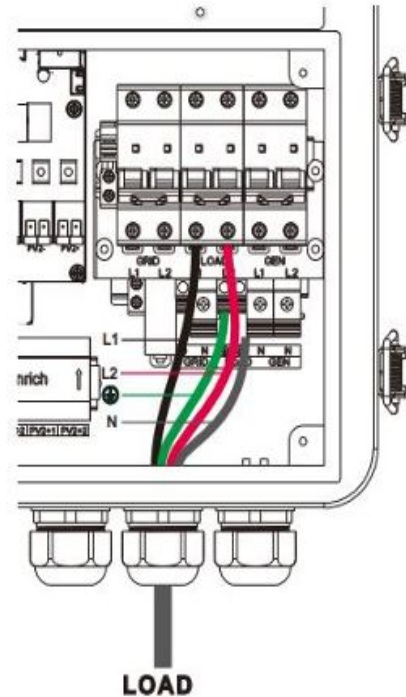
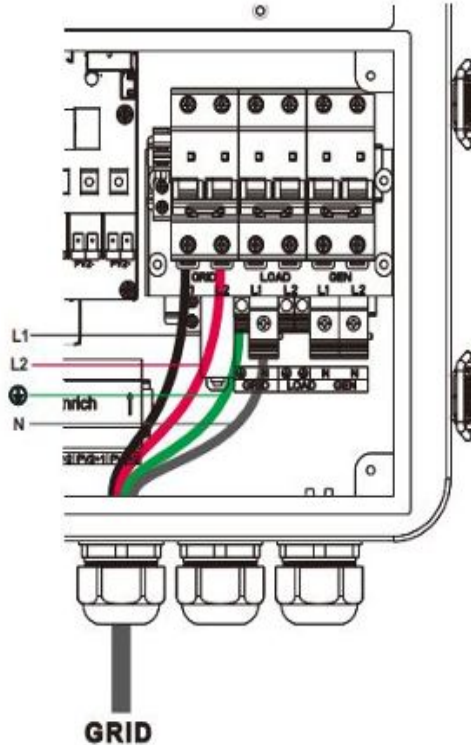
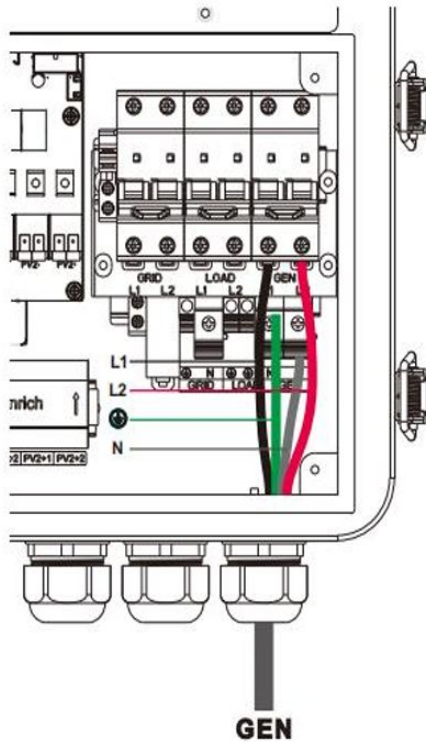
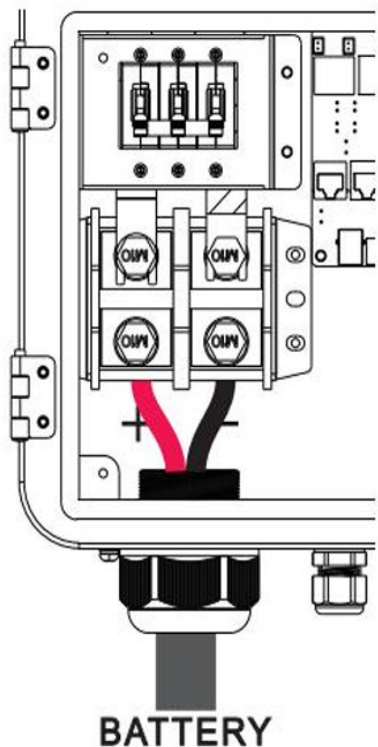
Shanghai (P.R. China), June 06th, 2024



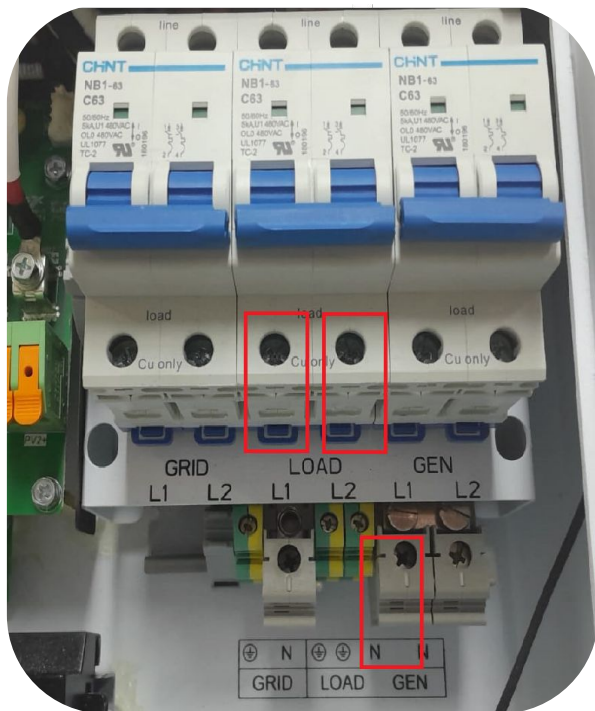
Tipos de Inversores Híbridos en el mercado



Tipos de Inversores Híbridos en el mercado

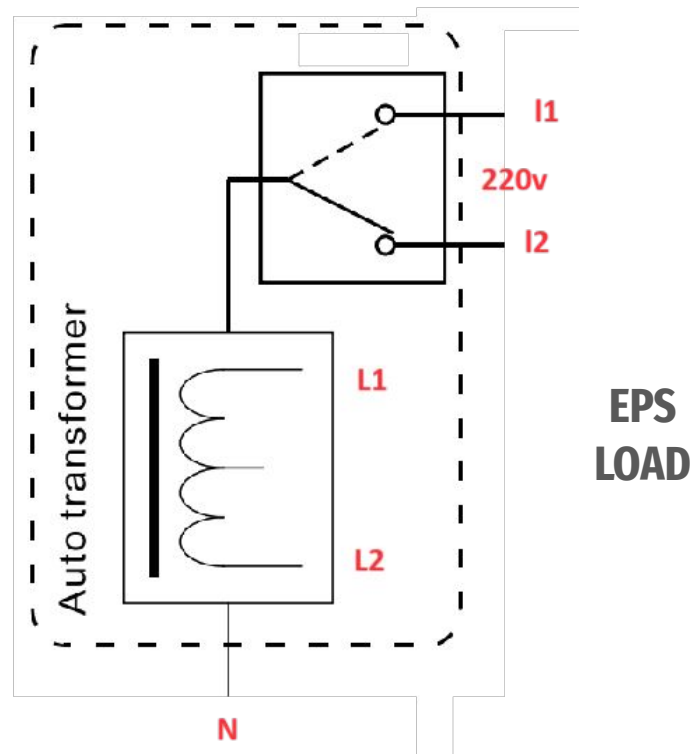


Tipos de Inversores Híbridos en el mercado



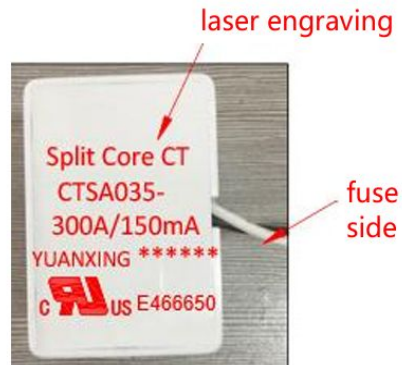
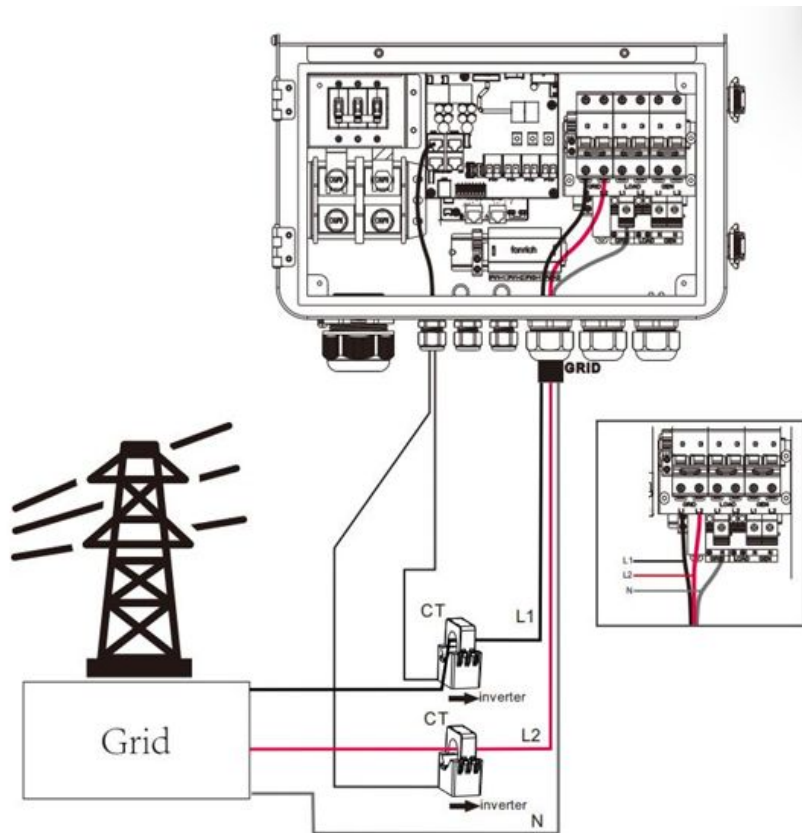
INVERSOR HIBRIDO SRNE

VS



OTRAS REFERENCIA EN EL MERCADO

Limitación de excedentes



On grid setup

CANCEL OK

Basic Enter Service Grid Protection Other

Grid standard
UL1741&IEEE1547.1-2020

Grid frequency
 50Hz 60Hz

Sell Power Max 6000W

Buy Power Max 6000W

CT ratio 2000:1

zero-export power 20W

On Grid Reactive Power 100%

Reactive power over excited
 Reactive power under excited

On Grid Reactive Power 1

Power factor over excited
 Power factor under excited

Parámetros CNO

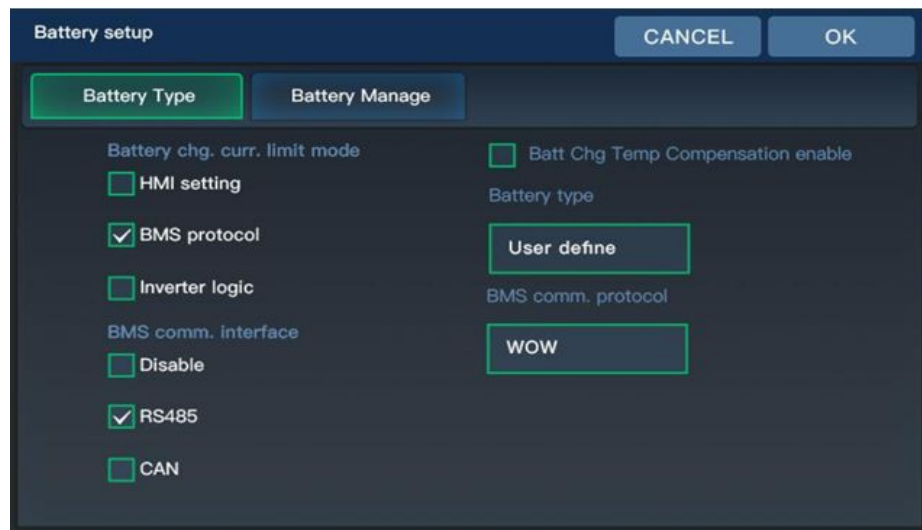
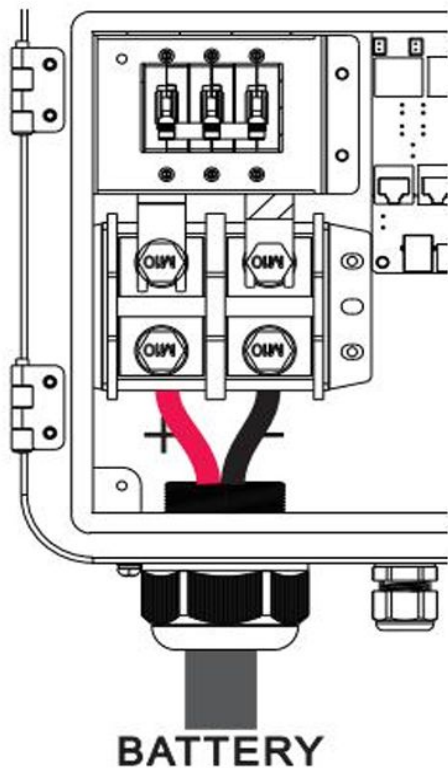
On grid setup

CANCEL OK

Basic Enter Service **Grid Protection** Other

LV1	184.0V	Time	2980ms	LF1	58Hz	Time	180ms
LV2	103.5V	Time	340ms	LF2	59Hz	Time	180ms
HV1	253V	Time	30176ms	HF1	61Hz	Time	180ms
HV2	287.5V	Time	180ms	HF2	62Hz	Time	180ms

Parámetros CNO



BMS comm.protocol

When the BMS port selection setting item = 485 or CAN, you need to select the corresponding lithium battery manufacturer brand for communication:

1 : PACE-PACEEX 2 : RUDA-Ritar 3 : AOGUAN=ALLGRAND BATTERY 4 : OULITE-OLITER
5 : CEF-CHANGFENG TECNOLOGY 6 : XINWANGDA -SUNWODA 7 : DAQIN -DAKING 8 :
WOW-SRNE 9 : PYL-PYLONTECH 10 : MIT-FOXESS 11: XIX-XYE 12: POL-POWERMR 13:
GUOX-Gotion 14: SMK-SMK 15: VOL-WEILAN 16:UZE-YUZE

Batería

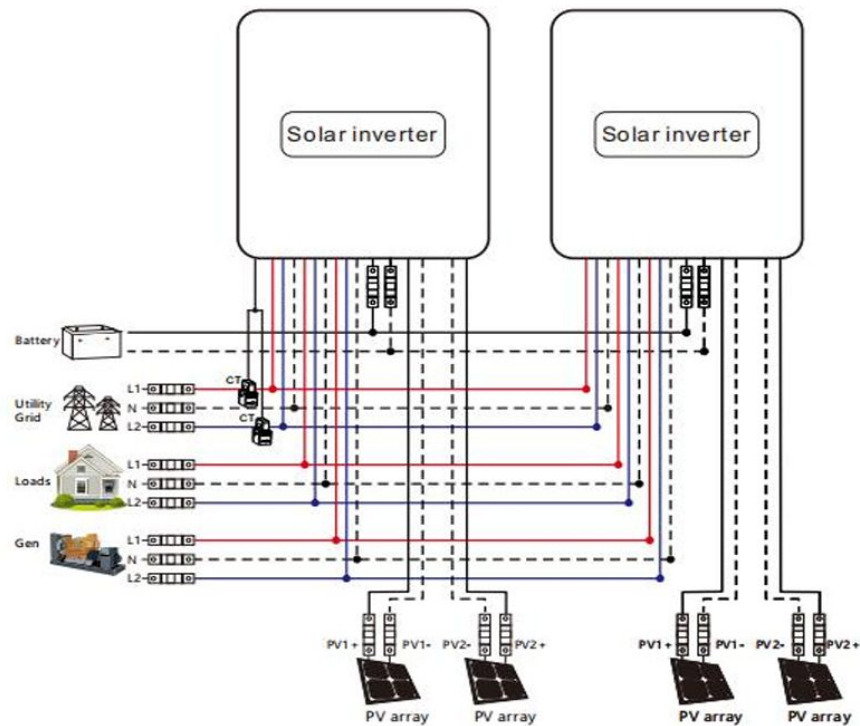
Battery setup

CANCEL OK

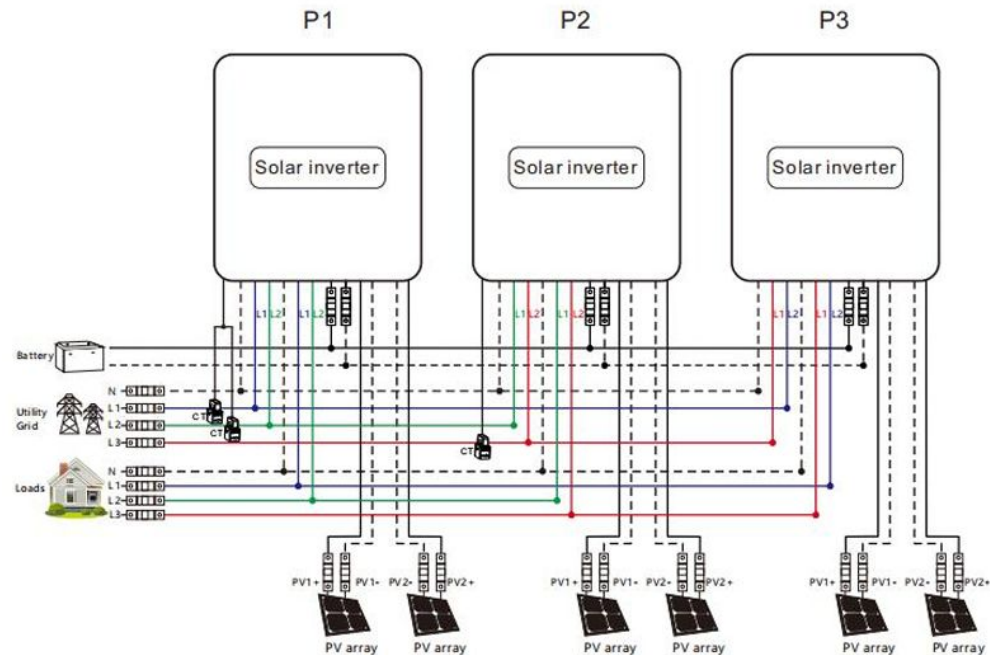
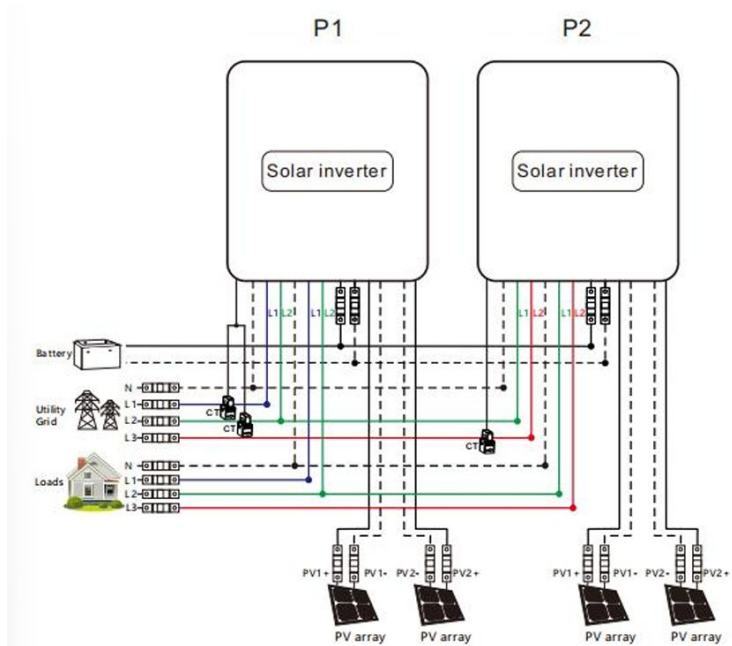
Battery Type Battery Manage

Maximum chg. voltage	54V	Maximum chg. current	120A
Batt. Recharging voltage	50.4V	Max. chg. curr. by Grid	120A
Battery curr. stop chg.	3.0A	Bat. SOC stop chg.	100%
Stop discharge voltage	43.6V	Stop dchg. delay time	30S
Eod recovery voltage	49.6V	Batt. SOC stop dchg.	5%
Battery under volt. alarm	46.4V	Batt. SOC low alarm	15%
Batt. volt. stop dchg to grid	46V	Batt. soc stop dchg to grid	10%

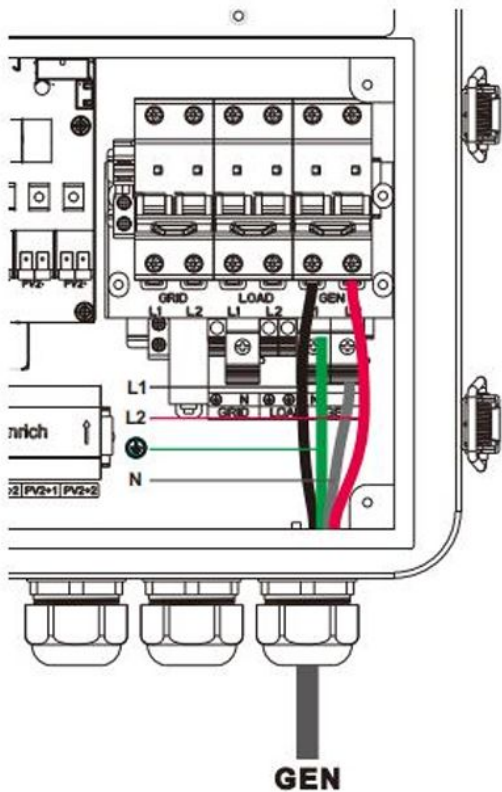
Paralelo



Paralelo



Paralelo



Advance setup

CANCEL OK

Generator Other Restart

Max charging current by gen. 10A

Generator rate power 5000W

Generator charging enable

The image shows a software interface for configuring a generator. The title is 'Advance setup'. There are two buttons at the top right: 'CANCEL' and 'OK'. Below the title, there are three tabs: 'Generator' (highlighted in green), 'Other', and 'Restart'. Under the 'Generator' tab, there are three settings: 'Max charging current by gen.' set to '10A', 'Generator rate power' set to '5000W', and a checked checkbox for 'Generator charging enable'.

FASE DIVIDIDA INVERSOR HÍBRIDO VENTAJAS



Referencia		Potencia nominal	Rango de trabajo MPPT	Máx corriente ENTRADA PV	MÁXIMA CARGA HACIA BATERIAS
HESP 4880U200-H	PV	8800W	120~450Vdc 5.5kW+5.5kW	25/25A	200A PV 120A RED 60A GEN
HESP48100 U200-H		10000W	120~450Vdc 6.6kW+6.6kW	25/25A	200A PV 120A RED 60A GEN
HESP48120 U200-H		12000W	120~450Vdc 6.6kW+6.6kW	25/25A	200A PV 120A RED 60A GEN



LÍNEA DE PRODUCTO HESP



1. Tiene breakers de entrada y salida (protecciones)
2. Compatibilidad con todo tipo de baterías con bms
3. Certificaciones para poder inyectar al operador de red
4. Pantalla táctil y botones de configuración





SRNE

Línea de baterías - serie EOS5B



MODEL	SR-EOS05B	CAN BE SET
MAIN INFO		
Rated Voltage	51.2V	
Rated Capacity	100Ah	
Battery Power	5.12kWh	
Battery Type	LFP	
Cycling Lifespan	6000 (80%DOD,0.5C,25°C)	
Lifetime	20 years	
Max. Parallel Capacity	9 units	✓
CHARGE&DISCHARGE		
Max. Charging Voltage	57.6V	✓
Over Discharging Voltage	44.8V	✓
Max. Charging Current	100A (1C)	✓
Peak Charging Current	110A (1.1C,3s)	✓
Max. Discharging Current	100A (1C)	✓
Peak Discharging Current	110A (1.1C,3s)	✓
GENERAL		
Weight	47kg (103.6lb)	
Dimension (L*W*H)	460*100*725mm (1.5*0.32*2.37ft)	
Communication	CAN / RS485 / USB / WiFi / Bluetooth	✓
Storage Condition	6 months@25°C/77°F, 3 months@35°C/95°F, 1 month@45°C/113°F	
Charging Temp. Range	0~45°C	
Discharging Temp. Range	-10~45°C	
Cooling Method	Neutral Cooling	
Protection Grade	IP30	
STANDARD		
Transportation	UN38.3,MSDS	
Safety	IEC 62619: 2017,EN IEC 61000-6,UL1973	

Línea de baterías - SERIE EOS10B



MODEL	SR-EOS10B	CAN BE SET
MAIN INFO		
Rated Voltage	51.2V	
Rated Capacity	200Ah	
Battery Power	10.24kWh	
Battery Type	LFP	
Cycling Lifespan	6000 Cycles	
Lifetime	20 Years	
Max. Parallel Capacity	9	✓
CHARGE&DISCHARGE		
Max. Charging Voltage	57.6V	✓
Over Discharging Voltage	44.8V	✓
Max. Charging Current	150A	✓
Peak Charging Current	200A (3s)	✓
Max. Discharging Current	200A	✓
Peak Discharging Current	220A (3s)	✓
GENERAL		
Weight	88kg, (194lb)	
Dimension (L*W*H)	620*205*1014mm (2*0.67*3ft)	
Communication	CAN / RS485 / USB / WiFi / Bluetooth	✓
Storage Condition	6 months @25°C; 3 months @35°C; 1 months @45°C	
Charging Temp. Range	0~45°C (32~113°F)	
Discharging Temp. Range	-10~45°C (14~113°F)	
Cooling Method	Neutral Cooling	
Protection Grade	IP65	
STANDARD		
Transportation	UN38.3,MSDS	
Safety	EN55032,EN55024,EN61000-3-2,EN61000-3-3	

Línea de baterías - SERIE EOC05B



MODEL	SR-EOC05B	CAN RESET
MAIN INFO		
Rated Voltage	51.2V	
Rated Capacity	100Ah	
Battery Power	5.12kWh	
Battery Type	LFP	
Cycling Lifespan	6000 (80%DOD,0.2C,25°C)	
Lifetime	20 years	
Max. Parallel Capacity	9 units	✓
CHARGE&DISCHARGE		
Max. Charging Voltage	57.6V	✓
Over Discharging Voltage	44.8V	✓
Standard charge current	50A	
Max. Charging Current	100A (1C)	✓
Peak Charging Current	110A (1.1C,3s)	✓
Standard discharge current	50A	
Max. Discharging Current	100A (1C)	✓
Peak Discharging Current	110A (1.1C,3s)	✓
GENERAL		
Weight	45kg (99.2lb)	
Dimension (L*W*H)	580*446*120mm (1.9*1.46*0.39ft)	
Communication	CAN / RS485 / USB /	✓
Storage Condition	6 months@25°C/77°F, 3 months@35°C/95°F, 1 month@45°C/113°F	
Charging Temp. Range	0~45°C	
Discharging Temp. Range	-10~45°C	
Cooling Method	Neutral Cooling	
Protection Grade	IP30	
STANDARD		
Transportation	UN38.3,MSDS	
Safety	IEC 62619: 2017,EN IEC 61000-6,UL1973	

GRACIAS

