TRIFACTOR

Life Is On | Schneider Electric

Turn your garage into a smart energy hub
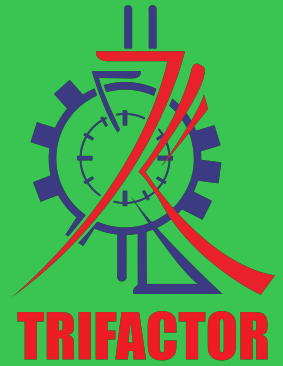
With Schneider Electric's residential solar solutions

For homeowners
North America

solar.se.com

Why choose Schneider Electric's solar products and solutions?

1

Experience Resiliency

Secure your power from unexpected grid outages. Solar & storage systems provide electricity even through the toughest weather conditions

2

Commitment to The Future

Make sustainable living a part of your life and improve the health of the earth. Going solar protects your family, your home, and your future.

96% less CO2 emissions than fuel-based electricity generation[1]

Going Solar for a year will save

CO_2 **~15,000 pounds** of CO2 emission[2]

=

🍃 **113 trees** grown for 10 years[3]

🔥 **668 gallons** of gasoline saved[3]

🚃 **7520 pounds** of coal preserved[3]

Source: 1. NREL   2. aresolar   3. EPA

3

Savings with Solar

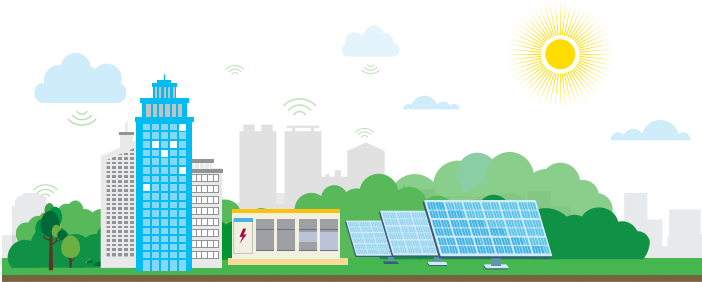Save on your electric bill by investing in solar power for your home.

4

Make your home energy-smart

With our smart solar technologies and solutions, you can see your contribution on carbon reduction towards sustainable future.

5

Schneider Electric's Ecosystem of Products and Solutions

Schneider Electric provides energy and automation digital solutions for efficiency and sustainability. We combine world-leading energy technologies, real-time automation, software and services into integrated solutions for homes, buildings, data centers, infrastructure and industries.

Life Is On

5% of revenue devoted to R&D

€29 billion of revenue

43% of revenue in new economies

128,000+ employees worldwide

Schneider Electric

APC by Schneider Electric

Wiser

Solar + Storage Solutions

Secure power and optimize energy usage for self-consumption or time of use rates. Schneider Electric's Solar and Storage solutions are ideal for grid-tied applications with backup power.

Schneider Electric's solutions include hybrid inverters, solar charge controllers, monitoring and balance of systems, ensuring Life Is On everywhere, for everyone and at every moment.

MPPT Charge Controller
- Optimize the solar energy production
- Black start batteries from solar

Energy Management
- Monitor and control your solar system locally or remotely with Insight Energy Management
- Mobile app available

XW Pro Hybrid Inverter
- Support Smart Grid such as Rule 21 and PREPA
- Store solar energy in batteries
- Provide backup power during power outages

EVlink Charging Station

Power Distribution Panel
- Save installation time and cost
- Maintenance without power loss

MPPT Disconnect RS
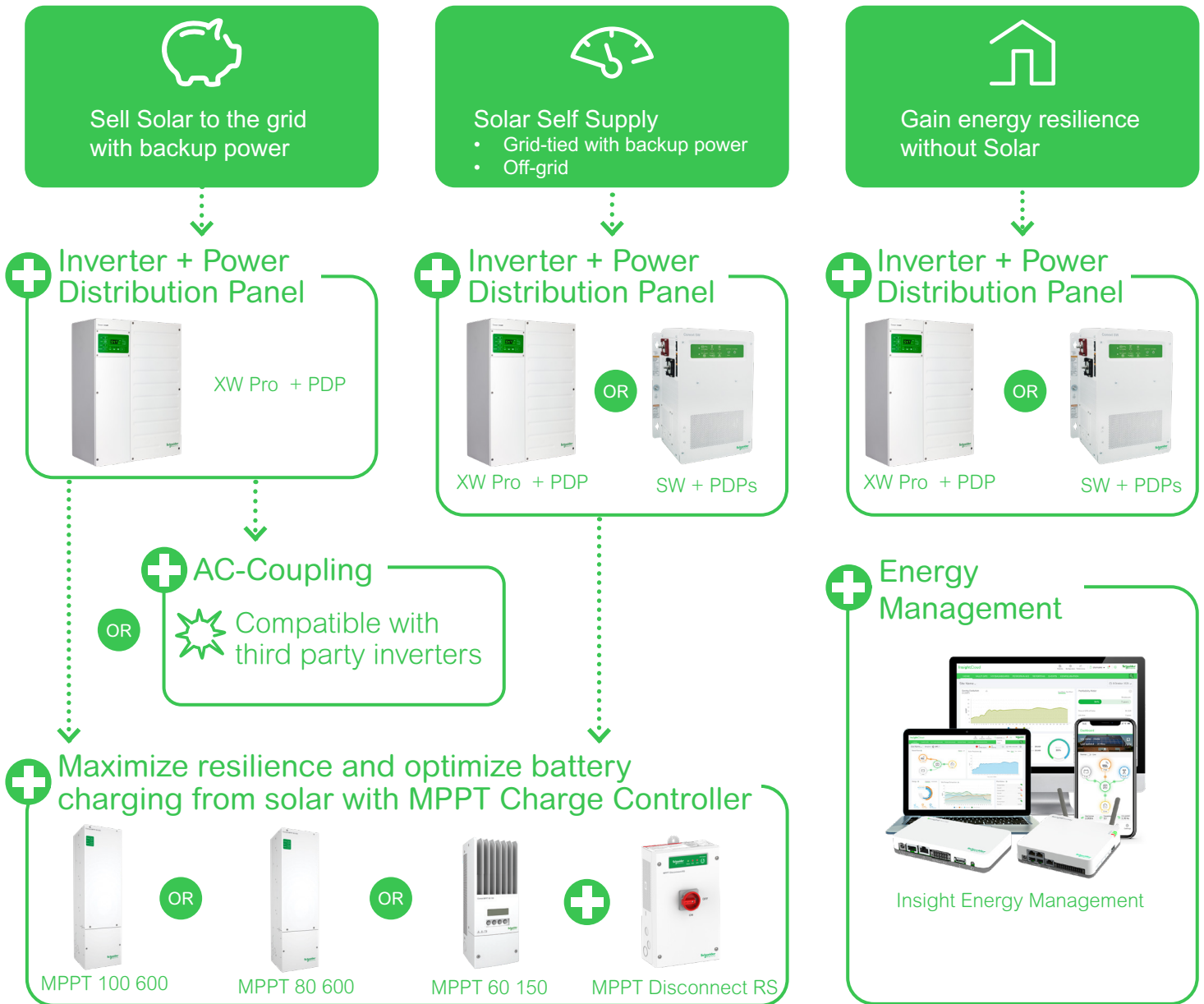- Rapid shutdown solution
- For enhanced safety

Batteries
- Our solutions are compatible with multiple batteries, making it easy to design solar and storage systems

Select The Right Products for Your Needs

TRIFACTOR

Q What's your primary goal?

Sell Solar to the grid with backup power	**Solar Self Supply** • Grid-tied with backup power • Off-grid	**Gain energy resilience without Solar**

Inverter + Power Distribution Panel

XW Pro + PDP

Inverter + Power Distribution Panel

XW Pro + PDP   OR   SW + PDPs

Inverter + Power Distribution Panel

XW Pro + PDP   OR   SW + PDPs

OR

AC-Coupling
Compatible with third party inverters

Energy Management

Insight Energy Management

Maximize resilience and optimize battery charging from solar with MPPT Charge Controller

MPPT 100 600   OR   MPPT 80 600   OR   MPPT 60 150   +   MPPT Disconnect RS

Accessories

Automatic Generator Start   Battery Monitor

Schneider Electric Solutions include:
• Optional generator integration
• Web-based monitoring & configuration with Energy Insight Management
• Scalable multi-unit systems with XW Pro
• Grid code compatibility with XW Pro

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Life Is On | **Schneider** Electric

Schneider Electric Solar

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8100 S Akron St
Ste 300
Englewood, CO 80112

solar.se.com

MPPT PV Optimization

600 Vdc Solar Charge Controllers

6 kW MPPT 100 600 (Part Number 865-1034)
4.8 kW MPPT 80 600 (Part Number 865-1032)

The MPPT 80 and MPPT 100 600 Vdc Solar Charge Controllers optimize the power from PV arrays for DC coupled solar and storage installations, with easy, flexible installation.

Optimum System Performance

- High power, 600 Vdc MPPT PV optimization and battery charge control

- Flexibility for oversized PV array power ratings up to 8.5 kW with the MPPT 100 or 6.8 kW with the MPPT 80

- High efficiency from PV to battery to grid, ideal for the self-consumption of solar energy

- Black start batteries from solar, providing maximum energy resilience for longer duration grid outages

- Harvest more energy with shade tolerant fast sweep MPPT algorithm

Flexible

- Flexible string sizing with a wide MPPT and PV operating voltage range

- Compatible with XW Pro and SW series hybrid inverters for a complete grid tied or off grid solar and storage solution

Easy to Install

- 2 string installations and smaller wire sizing with 600 Vdc PV arrays, allowing faster, lower cost installations

- No need for a combiner box with DC breakers or fuses

- Easy to install PV disconnect and NEC 2017 compliant rapid shutdown transmitter with the MPPT Disconnect RS accessory, UL1741 PVRSS certified

Compatible with Insight Energy Management

- Setup and configuration

- Remote monitoring & control with advanced data security

- Web and mobile app

- Multi-site management for installers

Insight Energy Management

solar.se.com

Technical Specifications

	MPPT 80 600	MPPT 100 600
Electrical Specifications		
Max PV array open circuit voltage	600 V	600 V
MPPT voltage range	195 to 510 VDC	195 to 510 VDC
PV array operating voltage	195 to 550 V	195 to 550 V
Max. array short circuit current at STC	28 A	35 A
Max. input operating current	23 A	29 A
Max. output power	4800 W (nominal 48 V systems)	6000 W (nominal 48 V systems)
Nominal battery voltage	24 and 48 VDC	24 and 48 VDC
Battery voltage operating range	16 to 67 VDC	16 to 67 VDC
Max. output charge current	80 A	100 A
Charger regulation method	Three-stage (bulk, absorption, float) plus manual equalization Two-stage (bulk, absorption) plus manual equalization	
Supported battery types	Flooded, GEL, AGM, Lithium-ion, Custom	
Efficiency		
Max. power conversion efficiency	95% (nominal 48 V), 92% (nominal 24 V)	
General Specifications		
Power consumption, night time	< 1 W	
Battery temperature sensor	Included	
Auxiliary output	Dry contact switching up to 60 VDC, 30 VAC, 8 A	
Enclosure material	Enclosure material: Indoor, ventilated, aluminium sheet metal chassis	
Knockout dimensions	44.0 mm, 35.0 mm , 28.2 mm, and 22.2 mm knockouts for 1-1/4, 1, ¾, and ½ inch trade size fittings	
IP degree of protection	IP20	
Product weight	13.5 kg (29.8 lb)	
Shipping weight	20.4 kg (45 lb)	
Product dimensions (H x W x D)	76.0 × 22.0 × 22.0 cm (30.0 × 8.6 × 8.6 in)	
Shipping dimensions (H x W x D)	113.39 × 28.68 × 31.90 cm (44.64 × 11.29 × 12.56 in)	
Ambient air temperature for operation	-20 °C to 65 °C (-4 °F to 149 °F), power derating above 40 °C	
Storage temperature range	-40 °C to 85 °C (-40 °F to 185 °F)	
Operating altitude	Sea level to 2000 m (6562 ft)	
System network and remote monitoring	Available with Insight Energy Management	
Warranty	Please refer to our website, solar.se.com for the latest version of the warranty statement.	
Part number	865-1032	865-1034
Regulatory Approvals		
Safety	CSA certified (UL1741, CSA 107.1) and CE marked for the Low-voltage Directive (EN50178)	
EMC	FCC and Industry Canada (Class B), CE marked for the EMC Directive (EN61000-6-1, -6-3)	
Compatible Products List		
XW Pro hybrid inverter	XW Pro 6848 120/240 VAC (865-6848-21), XW Pro 8548 230 VAC 865-8548-55)	
XW+ hybrid inverter	XW+ 8548 230 VAC (865-8548-61)	
SW IEC (230 VAC)	SW 4024 230 VAC (865-4024-55), SW 4048 230 VAC (865-4048-55)	
SW UL (120/240 VAC)	SW 4024 120/240 VAC (865-4024-21), SW 4048 120/240 VAC (865-4048-21)	
XW Power Distribution Panels	865-1015-01, 865-1014-01	
XW Mini Power Distribution Panels	865-1013-01	
MPPT Disconnect RS and RS initiator Switch	865-1036, 865-1039	
Insight Energy Management	**Insight**Home (865-0330), **Insight**Facility (865-0335), Insight	
Conext Automatic Generator Start	865-1060-01	
Conext Battery Monitor	865-1080-01	
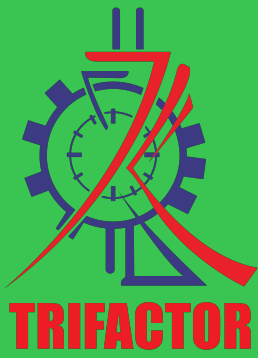
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Proven value for off-grid, backup power and self-consumption
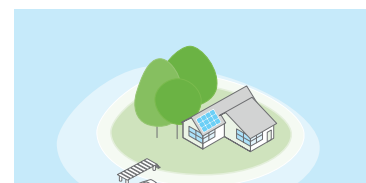
Conext™ SW inverter/charger

The Conext SW is a pure sine wave inverter that provides reliable power after a simple installation. The unique features of the Conext SW adds value for both installers and system owners globally.

Solution at a glance

Delivering proven value at a competitive price, the Conext SW inverter/charger provides the best value for off-grid solar, self-consumption and long-term backup for homes, small business and small remote communities.

- **High reliability** design proven through extreme testing under the harhsest conditions.

- Leading performance in **surge capability** and charging efficiency.

- Most advanced **energy optimization** configurable features with the ability to cover a wide variety of applications.

- Complete balance of system and comprehensive commissioning tools for **easy-installation**.

- **Plug and play** monitoring and control based on Xanbus network.

- **Simple** to install, maintain and operate.

Off-grid solar
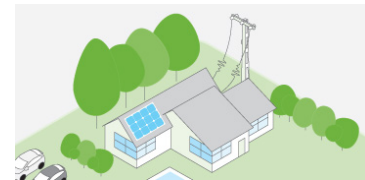
Backup power

Self-consumption

Conext SW Inverter/charger

Technical Specifications - North America

Device short name	SW 2524 120/240	SW 4024 120/240	SW 4048 120/240
Electrical specifications - inverter			
Output power (continuous) at 25°C	3000 W	3400 W	3800 W
Output power (30 min) at 25°C	3300 W	4000 W	4400 W
Output power (5 sec) at 25°C	5000 W	7000 W	7000 W
Peak current	24.3 A	41 A	41 A
Output frequency	50 / 60 Hz selectable	50 / 60 Hz selectable	50 / 60 Hz selectable
Output voltage	120 / 240 Vac	120 / 240 Vac	120 / 240 Vac
Output wave form	True sine wave	True sine wave	True sine wave
Optimal efficiency	91.5%	92%	94%
Idle consumption search mode	<11 W	<11 W	<11 W
Input DC voltage range	20 - 34 Vdc	20 - 34 Vdc	40 - 68 Vdc
AC connections	Single / Split phase	Single / Split phase	Single / Split phase
Electrical specifications - charger			
Output current	65 A	90 A	45 A
Nominal output voltage	24 Vdc	24 Vdc	48 Vdc
Output voltage range	12 - 32 Vdc	12 - 32 Vdc	24 - 64 Vdc
Charge control	2 or 3 stage	2 or 3 stage	2 or 3 stage
Charge temperature compensation	Yes - BTS included	Yes - BTS included	Yes - BTS included
Optimal efficiency	90%	90%	92%
AC input power factor	> 0.98	> 0.98	> 0.98
Input current	9 A	13 A	12 A
Input AC voltage	120 / 240 Vac split phase	120 / 240 Vac split phase	120 / 240 Vac split phase
Input AC voltage range line to neutral	95 - 135 Vac single phase	95 - 135 Vac single phase	95 - 135 Vac single phase
	170 - 270 Vac	170 - 270 Vac	170 - 270 Vac
Dead battery charge	Yes	Yes	Yes
General specifications			
Tare loss	**24 W**	**29 W**	**27 W**
Compatible battery types	FLA, Gel, AGM, Custom	FLA, Gel, AGM, Custom	FLA, Gel, AGM, Custom
Transfer relay rating	30 A	30 A	30 A
Transfer time (AC to inverter and inverter to AC)	<1 cycle (16.7 ms)	<1 cycle (16.7ms)	<1 cycle (16.7 ms)
Optimal operating temperature range	-20°C to 60°C (-4°F to 140°F)	-20°C to 60°C (-4°F to 140°F)	-20°C to 60°C (-4°F to 140°F)
Storage ambient temperature range	-40°C to 85°C (-40°F to 185°F)	-40°C to 85°C (-40°F to 185°F)	-40°C to 85°C (-40°F to 185°F)
Humidity Operation / storage	≤ 95% RH, non condensing	≤ 95% RH, non condensing	≤ 95% RH, non condensing
Ingress protection rating	Indoor only, IP20	Indoor only, IP20	Indoor only, IP20
Altitude (operating)	2000 m (6562 ft)	2000 m (6562 ft)	2000 m (6562 ft)
Product weight	22.3 kg (49.0 lb)	28.1 kg (62.0 lb)	28.1 kg (62.0 lb)
Shipping weight	27.2 kg (60.0 lb)	35.0 kg (77.1 lb)	35.0 kg (77.1 lb)
Product dimensions (H x W x D)	41.8 x 34.1 x 19.7 cm (16.5 x 13.4 x 7.6 in)	41.8 x 34.1 x 19.7 cm (16.5 x 13.4 x 7.6 in)	41.8 x 34.1 x 19.7 cm (16.5 x 13.4 x 7.6 in)
Shipping dimensions (H x W x D)	56.0 x 44.0 x 32.0 cm (22.0 x 17.3 x 12.6 in)	56.0 x 44.0 x 32.0 cm (22.0 x 17.3 x 12.6 in)	56.0 x 44.0 x 32.0 cm (22.0 x 17.3 x 12.6 in)
System network and remote monitoring	Available	Available	Available
Warranty (Depending on the country of installation)	2 or 5 years	2 or 5 years	2 or 5 years
Part number	865-2524	865-4024	865-4048
Regulatory approvals			
Safety	c(CSA) us mark CSA C22.2, No. 107.1-01 UL1741 Ed.2		
EMC	FCC Part 15 Class B		
Compatible products			
Universal DC distribution panel	865-1016		
AC distribution panel (120/240 V)	865-1017		
Conext System Control Panel	865-1050-01		
Conext Automatic Generator Start	865-1060-01		
Conext ComBox	865-1058		
Conext MPPT 80 600 or 60 150 solar charge controller	865-1032 or 865-1030-1		
Conext SW On/Off Remote Switch	865-1052		
Conext Battery Monitor	865-1080-01		
Conext Configuration Tool	865-1155-01		

Specifications are subject to change without notice.

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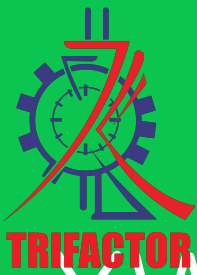
XW Pro

6.8/8.5 kW Hybrid Inverter for North America

865-6848-21

The XW Pro hybrid inverter provides energy security for residential, small commercial and off-grid applications. With high power ratings and 2X surge capability, the XW Pro is reliable for backup power operation and off-grid loads. In addition, broad battery compatibility provides flexibility in system design. It can be used for solar and storage or backup power systems without solar.

Backup power performance

- Reliable operation of backup power and off-grid loads with a high overload power rating (2x)
- Seamless transition to backup power with an integrated high-speed transfer switch
- Grid and Generator input ports
- Field proven product quality and reliability, building on two decades of experience in solar and storage
- Easy whole-home backup with Schneider Electric Backup Control Switch

Flexible

- 120/240 V output with stacking capability up to 4 units
- Configurable for 120 V output for 3 phase systems
- Connects solar with Conext™ MPPT Charge Controllers or PV inverters for DC-coupled or AC-coupled systems
- Lithium ion and lead acid battery integration
- Grid tied and off-grid systems IEEE1547-2018, Rule 21, HECO Rule 14H and PREPA compliant

Easy to install

- AC Out port for backup loads
- Full ecosystem and accessories for single unit or scalable systems

✔ 48V Li-ion and lead acid battery compatibility

✔ Compatible with Schneider Electric range of MPPT charge controllers

✔ Flexible solar and battery bank sizing

✔ InsightCloud and InsightMobile apps

Insight Energy Management

solar.se.com

Technical Specifications

	XW Pro 6848 NA 120/240 V	XW Pro 6848 NA 120 V
Inverter AC Output (Standalone)		
Output power (continuous) at 25°C	6800 W	5760 W
Overload 30 min/60 sec at 25°C	8500 W/12000 W	7200 W/12000 W
Output power (continuous) at 40°C	6000 W	5760 W
Maximum output current 60 seconds (rms)	52 A (240 V)	104 A (120 V)
Output frequency	50/60 Hz	50/60 Hz
Output voltage	Split phase 120/240 V +/- 3%	120 V +/- 3%
Total harmonic distortion at rated power	< 5 %	< 5 %
Idle consumption search mode	< 8 W	< 8 W
Input DC voltage range	40 to 64 V (48 V nominal)	40 to 64 V (48 V nominal)
Maximum input DC current	180 A	180 A
Charger DC Output		
Maximum output charge current	140 A	120 A
Output charge voltage range	40 – 64 V (48 V nominal)	
Charge control	Three stage, two stage, boost, external BMS, custom	
Charge temperature compensation	Battery temperature sensor included	
Power factor corrected charging	0.98	
Compatible battery types	Flooded (default), Gel, AGM, Lithium ion, custom	
AC Input		
AC 1 (grid) input current (selectable limit)	3 – 60 A (60 A default)	3 – 60 A (60 A default)
AC 2 (generator) input current (selectable limit)	3 – 60 A (60 A default)	3 – 60 A (60 A default)
Automatic transfer relay rating/typical transfer time	60 A / 8 ms	60 A / 8 ms
AC input voltage limits (bypass/charge mode)	L-L: 156 - 280 V (240 V nominal)	L-N: 78 - 140 V (120 V nominal)
AC input frequency range (bypass/charge mode)	52 – 68 Hz (allowable)	52 – 68 Hz (allowable)
AC Grid-Tie Output		
Grid sell power	6000 W	5760 W
Grid sell current (selectable limit)	0 to 27 A (240 V)	0 to 48 A (120 V)
Efficiency		
Peak	96.1%	94.8%
CEC weighted efficiency	94.1%	93.6%
General Specifications		
Part number	865-6848-21	
Product/shipping weight	55.2 kg (121.7 lb)/ 76.7 kg (169.0 lb)	
Product dimensions (H x W x D)	58 x 41 x 23 cm (23 x 16 x 9 in)	
Shipping dimensions (H x W x D)	71.1 x 57.2 x 39.4 cm (28.0 x 22.5 x 15.5 in)	
IP degree of protection	NEMA Type 1 Indoor	
Operating air temperature range	-25°C to 70°C (-13°F to 158°F) (power derated above 25°C (77°F))	
Features		
System monitoring and network communications	Available (through Insight)	
Intelligent features	Grid sell, peak load shave, generator support, solar self-supply	
Auxiliary port	0 to 12 V, maximum 250 mA DC output, selectable triggers	
Off-grid AC coupling	Frequency shifting	
Regulatory Approval		
Safety	UL1741, CSA 107.1	
EMC directive	FCC and Industry Canada Class B	
Interconnect	IEEE 1547-2018, UL 1741-SA and SB, Rule 21, Rule 14H, PREPA, and CSA 107.1	
Compatible Products Part Numbers		
Power Distribution Panels	XW Mini PDP (865-1013-01), XW PDP (865-1015-01)	XW PDP without AC Breakers (865-1014-01), 60 A Three Phase Breaker Kit (865-1315-01)
MPPT Charge Controllers	MPPT 100 600 (865-1034), MPPT 80 600 (865-1032), MPPT 60 150 (865-1030-1)	
Monitoring	**Insight**Home (865-0330), **Insight**Facility (865-0335)	
Accessories	Automatic Generator Start (865-1060), Battery Monitor (865-1080-01), Configuration Tool (865-1155-01)	

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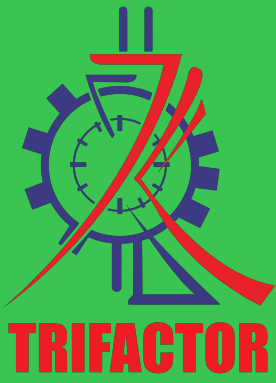
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Easy to install and commission for Rapid Shutdown PV arrays and NEC 2017 compliance

MPPT Disconnect RS

A Rapid Shutdown transmitter, arc fault detection, and PV disconnect for use with MPPT 60 150, MPPT 80 600, and MPPT 100 600 charge controllers

Solution at a glance

The MPPT Disconnect RS is an accessory for the Conext™ MPPT charge controllers. It provides a disconnect for the photovoltaic (PV) circuits, an integrated Rapid Shutdown transmitter, and arc fault detection for enhanced safety.

The MPPT Disconnect RS provides simplified NEC 2017 Compliance

- Integrated Rapid Shutdown transmitter using power line communication (PLC)
- Tested and PVRSS certified with Tigo® TS4-A-F or TS4-A-2F Fire Safety receivers
- Arc fault detection certified to UL 1699B
- Compatible with Conext™ MPPT 100 600, MPPT 80 600, and MPPT 60 150 charge controllers
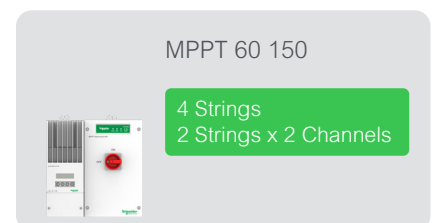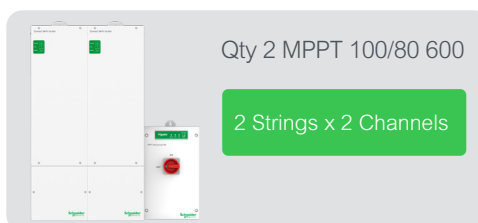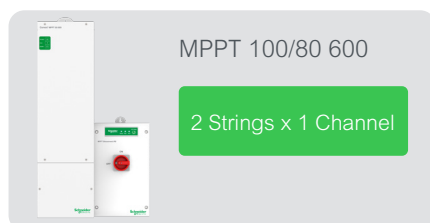
Integrated PV Disconnect

- 2 leg disconnect, compliant with NEC 2017
- LOTO capability
- 2 input channels with up to 2 strings per channel

Flexible Installation

- Multiple configurations with Conext™ MPPT charge controllers
- Single Rapid Shutdown Initiator Switch can be used with multiple MPPT Disconnect RS for larger systems
- Side or bottom cable entry
- Mount on either side of the Conext™ MPPT charge controllers

Charge Controller Configurations with MPPT Disconnect RS

MPPT 100/80 600	Qty 2 MPPT 100/80 600	MPPT 60 150
2 Strings x 1 Channel	2 Strings x 2 Channels	4 Strings 2 Strings x 2 Channels

Technical Specifications

MPPT Disconnect RS

|	
Device short name	MPPT Disconnect RS
Electrical specifications	
Max. PV array open circuit voltage	600 VDC
Max. array short-circuit current[1]	32 A (25.6 A @ STC) x 2 channels
Max. and min. PV input/output wire size	#6 AWG to #14 AWG (13.5 to 2.5 mm²)
Control power input	48 VDC nominal (22-60 VDC)
General specifications	
PV Disconnect	2 channel, 4 pole DC disconnect switch
Arc fault circuit protection[2]	Type 1
Rapid Shutdown	PLC transmitter included; Rapid Shutdown Initiator Switch ordered separately
Network communications	Xanbus
Enclosure type	Type 1, indoor rated
Product weight	4.5 kg (10 lb)
Product dimensions (H x W x D)	36.8 x 22 x 14.5 cm (14.48 x 8.66 x 5.7 in)
Shipping dimensions (H x W x D)	28.5 x 44.0 x 29.0 cm (11.22 x 17.32 x 11.41 in)
Ambient air temperature for operation	-20°C to +50°C (-4°F to 122°F)
Operating altitude	Sea level to 2000 m (6562 ft)
Regulatory	
Safety	UL1741, UL1741 CRD - PV Rapid Shutdown Systems (PVRSS), UL1699B, CSA C22.2 No. 107.1-16, CSA C22.2 No. 292-18, CSA (LTR) No. AE-004-2015
EMC	FCC and Industry Canada (Class B)
Rapid Shutdown Initiator Switch (Ordered separately)	
Enclosure type	Type 4X, outdoor rated
Ambient air temperature for operation	-20°C to +50°C (-4°F to 122°F)

1. Refer to MPPT Charge Controller data sheet for total allowable short circuit current
2. With Xanbus communication to MPPT charge controller

Compatible Product Part Numbers And Example Configurations

Products	Part Number	1 x MPPT 100/80	2 x MPPT 100/80	3 x MPPT 100/80	4 x MPPT 100/80	1 x MPPT 60	2 x MPPT 60	3 x MPPT 60	4 x MPPT 60
Bill of Materials									
MPPT 100 600 or MPPT 80 600	865-1034 or 865-1032	1	2	3	4	-	-	-	-
MPPT 60 150	865-1030-1	-	-	-	-	1	2	3	4
MPPT Disconnect RS	865-1036	1	1	2	2	1	2	3	4
RS Initiator Switch	865-1039	1	1	1	1	1	1	1	1
PV Rapid Shutdown	PVRSS Certified with Tigo TS4-A-F or TS4-A-2F (Fire Safety)								

Example System Solution with MPPT Disconnect RS
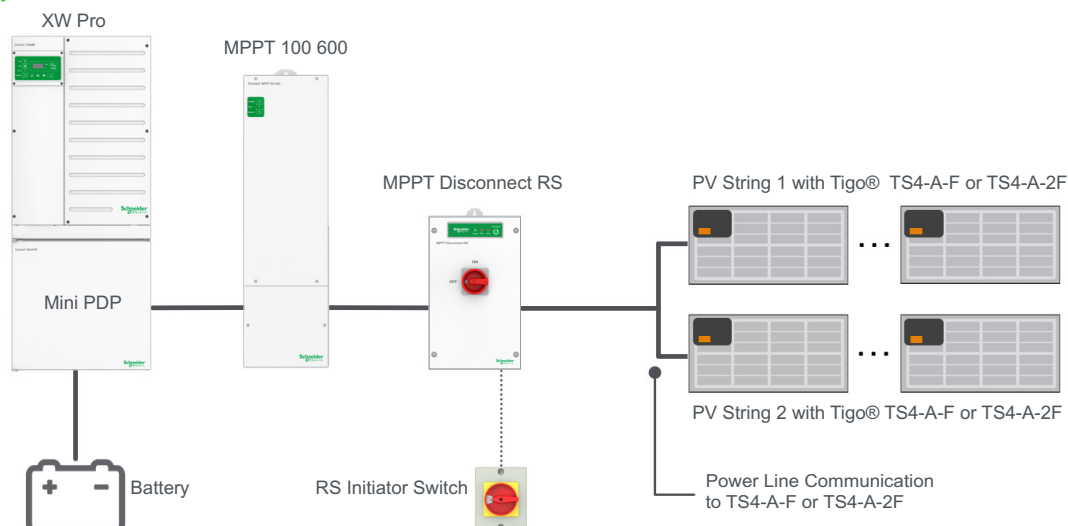
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Insight Energy Management
for Solar and Storage Systems

Powerful yet simple, Insight is Schneider Electric's energy management ecosystem for solar & storage. It provides intuitive mobile and web-browser based interfaces for homeowners and professionals alike.

Take Command

- Take control of your energy management decisions, such as which energy source you use at different times of the day

- Optimize energy consumption based on time of use rates and demand charges

Flexible

- Built-in wireless access point (WAP) connectivity for easy configuration(wirelessly connect a laptop or mobile device)

- Built-in wireless station mode for connection to a local area network

- Li-ion battery integration for flexible design and easier configuration

Easy to Service

- Remotely upgrade Schneider Electric solar & storage devices' firmware and manage system settings through InsightCloud

- Monitor your system's performance from anywhere at any time with InsightCloud and InsightMobile Apps

Insight for Homeowners

- Access from anywhere via cloud, local or mobile apps

- Monitor energy production and consumption in real-time

- See your money-savings and reduction in carbon emissions

Insight for Professionals

- Manage your portfolio of installations at your fingertips

- Reduce site visits by 50% thanks to the powerful remote management features

- Simplify solar and storage system configuration using web-based or Modbus

**Access at insightcloud.se.com or download on your mobile!**

Download on the App Store

ANDROID APP ON Google play

solar.se.com

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TRIFACTOR

InsightHome and **Insight**Facility

	InsightHome	**Insight**Facility
Monitoring and Control		
Monitor through local network	●	●
Monitor from anywhere using InsightCloud or InsightMobile app	●	●
System commissioning (startup) local and anywhere	●	●
Access to live and historical data	●	●
Firmware		
Remote firmware update	●	●
Network		
Wireless LAN	Intermediate range	Long range
Xanbus & Modbus		
Number of Xanbus port	1	2
Number of Modbus port	1	2
Powered by Xanbus network	●	●
Modbus 485	●	●
Physical Specifications		
Mounting method	Wall mounting	DIN rail
System Size		
Installation size	Up to 25.5 kW Solar + Storage	Up to 3 MW Solar or 50 kW Solar + Storage

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Technical Specifications

	InsightHome	InsightFacility
Electrical Specifications		
Power consumption	2 W average / 10 W peak	2 W average / 10 W peak
Xanbus	When connected to Conext XW Pro / SW, MPPT 100 600 or MPPT 80 600 providing network power	When connected to Conext XW Pro / SW, MPPT 100 600 or MPPT 80 600 providing network power
AC/DC adapter (option)	Input: 100-240V AC, 50-60Hz, 0.48A, Output: 12V DC, 1.6A, 5.5mm outer, 2.1mm center-positive jack * A SELV adapter is required.	Input: 100-240V AC, 50-60Hz, 0.6A, Output: 12V DC, 1.5A, 5.5mm outer, 2.1mm center-positive jack * A SELV adapter is required.
Physical Specifications		
Part number	865-0330	865-0335
Product weight	220 g (0.5 lb)	330 g / 0.73 lb
Product dimensions (W × H × D)	132 x 75 x 41 mm / 5.2 × 3.0 × 1.6 inches	137 x 130 x 48 mm / 5.4 × 5.1 × 1.9 inches
Shipping package weight	480 g / 1.1 lbs	724 g / 1.6 lb
Shipping package dimensions (W x H x D)	158 × 158 × 188 mm / 6.2 × 6.2 × 7.4 inches	190 × 158 × 100 mm / 7.5 × 6.2 × 3.9 inches
Housing / mounting system	ABS Plastic / Wall mounting	ABS Plastic / DIN rail
IP rating / mounting location	IP 20, NEMA 1, Indoor only	IP 20, NEMA 1, Indoor only
Status display	1 x LEDs	3 x LEDs
Temperature	Operating: 32 to 113 °F / 0 to 45 °C Storage: -40 to185 °F / -40 to 85 °C	Operating: -4 to 122 °F / -20 to 50 °C Storage: -40 to 185 °F / -40 to 85 °C
Humidity	Operating: < 95%, non-condensing Storage: <95%	Operating: < 95%, non-condensing Storage: <95%
Features		
Programmable dry contact relay	Screw 3-terminal, 16-24 AWG, NC-Com-NO, Form: Class 2, 24 V DC, 4 A max SELV input only	
Graphical user interface	Internet browser	
Remote firmware upgrades	Yes	
Max. number of Xanbus devices	Up to 6 units for XW Pro (4 in parallel or 6 in 3-phase)	
Regulatory		
EMC immunity	EN61000-6-1	
EMC emissions	EN61000-6-3, FCC Part 15 Class B, Ind. Canada ICES-003 Class B	
Substances / environmental	RoHS	
Compatible Products Part Numbers		
Storage inverters UL (120/240V)	XW Pro (865-6848-21), SW 4024 (865-4024-21), SW 4048(865-4048-21)	
Storage inverters IEC (230V)	XW Pro (865-8548-55), XW+ (865-8548-61), SW 4024 (865-4024-55), SW 4048(865-4048-55)	
String inverters EMEA, APAC	CL-60E (PVSCL60E), CL36 (PVSCL36E), CL33 (PVSCL33E), CL50 (PVSCL50E)	
String inverters Australia	CL30 (PVSCL30E), CL50 (PVSCL50E)	
MPPT Charge Controllers	MPPT 100 600 (865-1034), MPPT 80 600 (865-1032), MPPT 60 150 (865-1030-1)	
Accessories	Automatic Generator Start (865-1060), Battery Monitor (865-1080-01)	
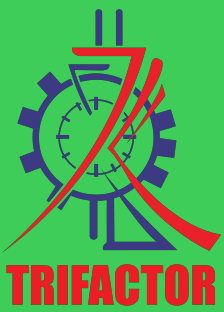
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Conext
Battery Monitor

Battery bank monitoring with battery string health detection.

Conext Battery Monitor

Product at a glance

Conext™ Battery Monitor indicates hours of battery-based runtime and determines battery bank state of charge. It shares key battery bank parameters with Conext™ Pro and XW+ inverter/chargers improving overall system performance of 24 V and 48 V battery banks. Detecting battery string imbalance is determined using innovative mid-point sensing technology providing time to address the issue before performance is significantly impacted.

Conext™ Battery Monitor features built-in data logging and a local display to selectively show the voltage, current, consumed amp-hours, remaining capacity, and remaining hours. The same information and battery bank data is reported by Conext™ Gateway and distributed to other Conext devices such as XW Pro or XW+ inverter chargers, MPPT Solar Charge Controllers, Automatic Generator Start module, and System Control Panel via Xanbus™ network connectivity, enhancing performance of the overall system.

Industrial and telecom customers can integrate Conext™ Battery Monitor with energy management systems over Modbus RS485.

Why choose Conext Battery Monitor?

Higher return on investment

- Get the most out of battery-based Conext inverter/charger systems
- Cleary understand hours of available battery-based autonomy
- Detect imbalance between battery strings before it becomes an issue

Designed for reliability

- Extensive quality and reliability testing
- Highly Accelerated Life Testing (HALT)

Flexible

- Stand-alone application or integration with Conext™ XW Pro or XW+ inverter charger systems
- Enables state of charge triggers for AGS module control of diesel generators
- Enables balancing of multi-battery bank systems for large clustered Conext XW+ inverter/charger systems

Easy to service

- Remotely monitor, troubleshoot, or upgrade firmware with Conext Gateway
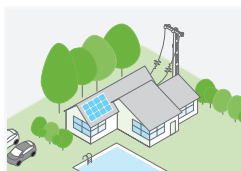- Built-in data logger

Easy to install

- Wall-mount, DIN-rail mount, panel mount
- RJ45 connections for Xanbus network and battery signals
- Configure with front-panel buttons, Conext™ Gateway, or RS485 Modbus
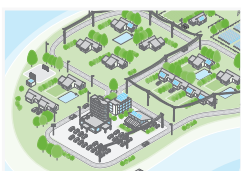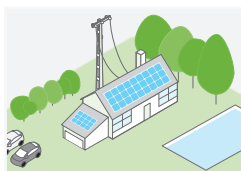
Product applications

Backup power

Residential grid-tie solar with backup power

Off-grid solar

Community electrification

Self-consumption

Device short name	Conext™ Battery Monitor
Electrical specifications	
Supply voltage	18 – 66 Vdc
Supply current (backlight off, logging-disabled)	80 mA @ VIN=48 Vdc, 150 mA @ VIN=24 Vdc
Input voltage range	0 – 70 Vdc
Input current range	-9999 – +9999 A
Battery capacity range	20 – 10,000 Ah
Operating temperature range	-20 – +50 °C
Displayed increments	
Voltage	0 – 70 V (0.01 V)
Current	0 – 200 A/200 – 9999 A (0.1 A/1 A)
Amp-hours	0 – 200 Ah/200 – 99990 Ah (0.1 Ah/1 Ah)
State of charge	0 – 100% (0.1%)
Time remaining	0 – 24 hrs/24 – 240 hrs (1 min/1 hr)
Temperature	-20 to +50 °C (0.1 °C)
Accuracy	
Voltage measurement	+/- 0.3%
Current measurement	+/- 0.4%
Features	
Network	Protocol: Xanbus/Connectors: RJ45
USB 2.0	Protocol: MSD (data extraction) Connector: USB mini-B
Modbus	Isolated RS-485, 2-wire serial
Data logging	10 data points every 10 mins for 10 years
Display	Backlight LCD
Front-panel interface	3 menu buttons, 1 power button
Battery string imbalance detection	Two point sensing
Temperature sensor(included)	762 cm
Warranty	Please refer to our website, SEsolar.com for the latest version of the warranty statement.
General specifications	
Product dimensions (H x W x D)	8.5 x 8.5 x 9.0 cm (3.3 x 3.3 x 3.5 in)
Product/shipping weight	0.2 kg (0.4 lb)/1.95 kg (4.3 lb)
Mounting options	Panel-mount, wall-mount, DIN rail: 35 mm
IP rating/location	IP 20, NEMA 1, indoor only
Storage temperature range	-30 – +70 °C
Part number	865-1080-01
Battery interface kit with shunt (included)	
Connection to battery	300 cm cable with ring terminals
Connection to battery monitor	500 cm CAT5 cable RJ45
Shunt	500 A/50 mv
Regulatory approvals	
Markings	CE, RCM, UL, CSA
Safety	IEC/EN62109-1, UL1741, CSA 107.1
EMC	Directive 2004/108/EC, IEC/EN61000-6-3, IEC/EN61000-6-1, FCC Part 15 Class B, Industry Canada ICES-003 Class B
Compatible products part numbers	
Conext XW Pro (120/240 V)	XW Pro 6848 NA: 865-6848-21
Conext XW+ (230 V)	XW 8548 E: 865-8548-61
Conext XW+ (120/240 V)	XW 6848 NA: 865-6848-01
Conext SW (230 V)	SW 4024: 865-4024-55 / SW 4048: 865-4048-55
Conext SW (120 V)	SW 4024: 865-4024-21 / SW 4048: 865-4048-21
Conext MPPT 80 600	865-1032
Conext MPPT 60 150	865-1030-1
Conext Gateway	865-0329
Conext System Control Panel	865-1050
Conext Automatic Generator Start	865-1060
Conext Configuration Tool	865-1155-01

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TRIFACTOR
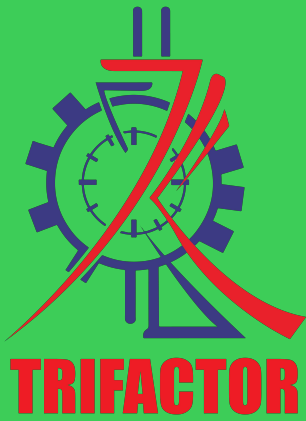
Conext Automatic Generator Start

Automatically start and stop a generator to meet power needs.

Product at a glance

The Conext™ Automatic Generator Start (AGS) automatically activates or stops a generator in response to changing power requirements. An excellent addition to an off-grid or backup power system, the AGS seamlessly connects to the Xanbus™ network and shares status information with all other devices on the network. It monitors a set of system user-programmable parameters, such as battery voltage, state of charge, or grid power, and activates the generator in response to any changes. The AGS can also be configured remotely using the Conext™ System Control Panel (SCP), Gateway to engage a generator and can assist an inverter/charger when output power demands are high.
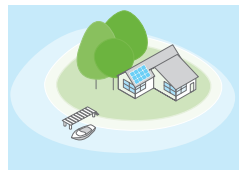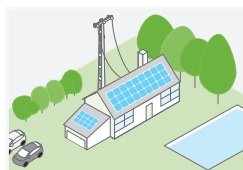
Product applications
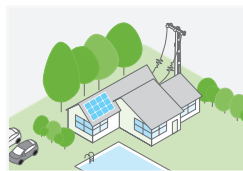
Backup power

Residential grid-tie solar with backup power

Off-grid solar

Community electrification

Self-consumption

Why choose Automatic Generator Start?

Higher return on investment
- Integrate with an inverter/charger to maximize system power performance

Designed for reliability
- Tested and qualified for harsh environmental conditions (HALT reliability testing)

Flexible
- Works with multiple Xanbus devices: Conext™ XW Pro, XW+, SW, MPPT 60-150, MPPT 80-600, SCP and Gateway
- User-programmable trigger settings to meet specific application needs:
  – Battery voltage
  – SOC
  – Exercise time
  – Quiet time
  – Inverter/charger AC power loads
- Supports manual start and stop operation modes

Easy to service
- Access and troubleshoot AGS device events using the Conext™ Gateway or SCP
- Easily upgrade new firmware to the AGS using the Conext™ Gateway

Easy to install
- Wall mount
- RJ45 connections for Xanbus network cables

True bankability
- Warranty from a trusted partner with 180 years of experience
- World leader in industrial power drives, UPS and electrical distribution
- Strong service infrastructure worldwide to support your global needs

Device short name	Conext™ Automatic Generator Start
Electrical specifications	
Nominal input network voltage	15 Vdc
Max. operating current	200 mA @ nominal input network voltage
Relay contact voltage rating	12 Vdc, 30 Vdc max'
Max. relay contact current	5 A DC'
Nominal 12/24 V thermostat input voltage	12 Vdc/24 Vdc' = On
Min. 12/24 V thermostat input voltage	9.5 Vdc'
Max. 12/24 V thermostat input voltage	30 Vdc'
Typical 12/24 V thermostat input current	14.6 mA @ 12 V
Nominal 12/24 V generator running B+ voltage	12 Vdc/24 Vdc' = On
Min. 12/24 V generator running B+ voltage	9.5 Vdc'
Max. 12/24 V generator running B+ voltage	30 Vdc'
Typical 12/24 V generator running B+ voltage	14.6 mA @ 12 V
General specifications	
Dimensions (H x W x D)	9.55 x 14.6 x 3.7 cm (3.8 x 5.7 x 1.5 in)
Weight	225.0 g (0.5 lb)
Mounting options	Wall-mount
IP rating/location	IP20, indoor only
Warranty	Please refer to our website, SEsolar.com for the latest version of the warranty statement.
Part number	865-1060-01
Communication	
Network protocol	Xanbus
Connectors	2 x RJ45 ports
Regulatory approvals	
Safety	CSA 107.1-01, UL 458 4th edition including the Marine supplement
EMC	FCC part 15B Class B, Industry Canada ICES-0003 Class B, C-Tick
Included parts	
	One network terminator
	One CAT5 cable (2.1 m)
	One mounting plate
	Four #6 screws
Compatible products part numbers	
Conext XW Pro UL(120/240 V)	XW Pro 6848 NA: 865-6848-21
Conext XW+ IEC (230 V)	XW+ 8548 E: 865-8548-61
Conext XW+ UL (120/240 V)	XW+ 6848 NA: 865-6848-01
Conext SW IEC (230 V)	SW 4024: 865-4024-55 / SW 4048: 865-4048-55
Conext SW UL (120 V)	SW 4024: 865-4024-21 / SW 4048: 865-4048-21
Conext MPPT 80 600	865-1032
Conext MPPT 60 150	865-1030-01
Conext Gateway	865-0329
Conext System Control Panel	865-1050-01
Conext Battery Monitor	865-1080-01
Conext Configuration Tool	865-1155-01

' Limited to Class 2 levels (100 VA)

Specifications are subject to change without notice.

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