# Conext XW hybrid inverter/charger

# One solution for global power needs

Conext<sup>TM</sup> XW+ is an adaptable single-phase and three-phase inverter/charger system with grid-tie functionality and dual AC power inputs. Available solar charge controllers, monitoring, and automated generator control modules enable further adaptability. From a single Conext XW+ unit to clusters up to 102 kW, the Conext XW+ is a scalable system that allows for the integration of solar capacity as required. Adaptable and scalable, the Schneider Electric<sup>TM</sup> Conext XW+ system is the one solution for grid-interactive and off-grid, residential and commercial, solar and backup power applications.

## Why choose Conext XW ₹?



#### Higher return on investment

- Excellent load starting with high 30-minute and 5-second power
- Performs in hot environments up to 70°C
- Intelligent functionality enables solar prioritization, load shifting, peak shaving, and assists small generators with heavy loads
- Backup power with grid-tie functionality converts external DC power to AC power for export to the utility grid



#### Designed for reliability

- Extensive quality and reliability testing
- Highly Accelerated Life Testing (HALT)
- · Globally proven and recognized field performance



#### Flexible

- Single or three phase systems from 7.0 kW to 102 kW
- Supports DC coupled and AC coupled off-grid and grid-tie architectures
- Supports charging of Lithium Ion battery packs



# Easy to service

- Field serviceable with replacement boards and spare parts
- Monitor, troubleshoot or upgrade firmware with Conext ComBox



### Easy to install

- System configures quickly into compact wall-mounted system
- Integrates both grid and generator power with dual AC inputs
- Balance-of-system components integrates battery bank, solar charge controllers and generators
- · Commission the entire system with PC software tool and Conext ComBox

## **Product applications**



Residential grid-tie solar with backup power



Self-consumption



Off-grid solar



Backup power



Community electrification





Dutput power (continuous) at 25°C   5500 W	6800 W 8500 W / 12000 W 6000 W 53 A 50 / 60 Hz 230 Vac < 5% < 7 W 40 to 64 V (48 V Nominal) 180 A  140 A 40 - 64 V (48 V Nominal) Three stage, two stage, boost, custom Battery temperature sensor included 0.98 Flooded (default), Gel, AGM, LiON, custom* 440 to 10000 Ah  3 - 60 A (56 A default) 3 - 60 A (56 A default) 60 A / 8 ms 230 V +/- 3% 45-55 Hz (default) 40-68 Hz (allowable)
Dispute power (continuous) at 40°C 4500 W  Advisum output current 60 seconds (rms) 40 A  Dutput frequency (selectable) 50 / 60 Hz  Dutput voltage 230 Vac  Total harmonic distortion (THD) at rated power 5%  Gle consumption search mode 7 W  Input DC voltage range 40 to 64 V (48 V Nominal)  Maximum input DC current 150 A  Charger DC output  Maximum output charge current 110 A  Dutput charge voltage range 40 - 64 V (48 V Nominal)  Three stage, two stage, boost, custom  Battery temperature sensor included  Power factor corrected charging 0.98  Todatible battery types Flooded (default), Gel, AGM, LiON, custom*  Battery bank range (scaled to PV array size) 440 to 10000 Ah  AC input  AC 1 (grid) input current (selectable limit) 3 - 60 A (56 A default)  Automatic transfer relay rating / typical transfer time 60 A / 8 ms  AC input voltage nominal 230 V +/- 3%  AC input frequency range (bypass/charge mode) 4.5 kVA  Grid sell on AC1 (max) 4.5 kVA  Grid sell on AC1 (max) 4.5 kVA  Grid sell ourrent range on AC1 48 to 51 Hz (auto adjust entering sell mode)  Grid sell power factor range (lead/lag) 0.5  Efficiency  Peak 95.8%  General specifications  Part number 865-7048-61  Product / shipping weight 53.5 kg (118.0 lb) / 75.0 kg (165.0 lb)  Product dimensions (H x W x D) 58 x 41 x 23 cm (23 x 16 x 9 in)	8500 W / 12000 W 6000 W 53 A 50 / 60 Hz 230 Vac < 5% < 7 W 40 to 64 V (48 V Nominal) 180 A  140 A 40 - 64 V (48 V Nominal) Three stage, two stage, boost, custom Battery temperature sensor included 0.98 Flooded (default), Gel, AGM, LiON, custom* 440 to 10000 Ah  3 - 60 A (56 A default) 3 - 60 A (56 A default) 60 A / 8 ms 230 V +/- 3% 45-55 Hz (default) 40-68 Hz (allowable)
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AC grid-tie output  Grid sell on AC1 (max)  Grid sell current range on AC1 (selectable range)  Grid sell current range on AC1  Grid sell voltage range on AC1  Grid sell voltage range on AC1  Grid sell frequency range on AC1  48 to 51 Hz (auto adjust entering sell mode)  Grid sell power factor range (lead/lag)  Grid sell frequency range on AC1  48 to 51 Hz (auto adjust entering sell mode)  Grid sell frequency range on AC1  48 to 51 Hz (auto adjust entering sell mode)  Grid sell frequency range on AC1  48 to 51 Hz (auto adjust entering sell mode)  Grid sell frequency range on AC1  48 to 51 Hz (auto adjust entering sell mode)  Grid sell frequency range on AC1  48 to 51 Hz (auto adjust entering sell mode)  Grid sell frequency range on AC1  48 to 51 Hz (auto adjust entering sell mode)  Grid sell frequency range on AC1  48 to 51 Hz (auto adjust entering sell mode)  Grid sell frequency range on AC1  48 to 51 Hz (auto adjust entering sell mode)  Grid sell frequency range on AC1  48 to 51 Hz (auto adjust entering sell mode)  Grid sell frequency range on AC1  48 to 51 Hz (auto adjust entering sell mode)  Grid sell frequency range on AC1  48 to 51 Hz (auto adjust entering sell mode)  Grid sell frequency range on AC1  48 to 51 Hz (auto adjust entering sell mode)  Grid sell frequency range on AC1  48 to 51 Hz (auto adjust entering sell mode)  Grid sell frequency range on AC1  48 to 51 Hz (auto adjust entering sell mode)  Grid sell frequency range on AC1  48 to 51 Hz (auto adjust entering sell mode)  Grid sell frequency range on AC1  48 to 51 Hz (auto adjust entering sell mode)  Grid sell frequency range on AC1  67 to 50 Hz (auto adjust entering sell mode)  Grid sell frequency range on AC1  68 to 51 Hz (auto adjust entering sell mode)  Grid sell frequency range on AC1  68 to 51 Hz (a	6.0 kVA 0 to 27 A
Grid sell on AC1 (max)       4.5 kVA         Grid sell current range on AC1 (selectable range)       0 to 20 A         Grid sell voltage range on AC1       205 to 262 Vrms (auto adjust entering sell mode)         Grid sell frequency range on AC1       48 to 51 Hz (auto adjust entering sell mode)         Grid sell power factor range (lead/lag)       0.5         Efficiency       95.8%         General specifications       95.8%         Part number       865-7048-61         Product / shipping weight       53.5 kg (118.0 lb) / 75.0 kg (165.0 lb)         Product dimensions (H x W x D)       58 x 41 x 23 cm (23 x 16 x 9 in)	0 to 27 A
Grid sell current range on AC1 (selectable range)       0 to 20 A         Grid sell voltage range on AC1       205 to 262 Vrms (auto adjust entering sell mode)         Grid sell frequency range on AC1       48 to 51 Hz (auto adjust entering sell mode)         Grid sell power factor range (lead/lag)       0.5         Efficiency       95.8%         General specifications       95.8%         Part number       865-7048-61         Product / shipping weight       53.5 kg (118.0 lb) / 75.0 kg (165.0 lb)         Product dimensions (H x W x D)       58 x 41 x 23 cm (23 x 16 x 9 in)	0 to 27 A
Grid sell voltage range on AC1     205 to 262 Vrms (auto adjust entering sell mode)       Grid sell frequency range on AC1     48 to 51 Hz (auto adjust entering sell mode)       Grid sell power factor range (lead/lag)     0.5       Efficiency     95.8%       General specifications     95.8%       Part number     865-7048-61       Product / shipping weight     53.5 kg (118.0 lb) / 75.0 kg (165.0 lb)       Product dimensions (H x W x D)     58 x 41 x 23 cm (23 x 16 x 9 in)	
Grid sell frequency range on AC1     48 to 51 Hz (auto adjust entering sell mode)       Grid sell power factor range (lead/lag)     0.5       Efficiency     58%       Peak     95.8%       General specifications     865-7048-61       Poroduct / shipping weight     53.5 kg (118.0 lb) / 75.0 kg (165.0 lb)       Product dimensions (H x W x D)     58 x 41 x 23 cm (23 x 16 x 9 in)	de) 205 to 262 Vrms (auto adjust entering sell mode)
### Control of the Co	
### Peak 95.8%    Peak 95.8%    General specifications	48 to 51 Hz (auto adjust entering sell mode)
Peak         95.8%           General specifications         95.8%           Part number         865-7048-61           Product / shipping weight         53.5 kg (118.0 lb) / 75.0 kg (165.0 lb)           Product dimensions (H x W x D)         58 x 41 x 23 cm (23 x 16 x 9 in)	0.5
Seneral specifications         865-7048-61           Part number         865-7048-61           Product / shipping weight         53.5 kg (118.0 lb) / 75.0 kg (165.0 lb)           Product dimensions (H x W x D)         58 x 41 x 23 cm (23 x 16 x 9 in)	
Part number 865-7048-61 Product / shipping weight 53.5 kg (118.0 lb) / 75.0 kg (165.0 lb) Product dimensions (H x W x D) 58 x 41 x 23 cm (23 x 16 x 9 in)	95.8%
Product / shipping weight         53.5 kg (118.0 lb) / 75.0 kg (165.0 lb)           Product dimensions (H x W x D)         58 x 41 x 23 cm (23 x 16 x 9 in)	
Product dimensions (H x W x D) 58 x 41 x 23 cm (23 x 16 x 9 in)	865-8548-61
Product dimensions (H x W x D) 58 x 41 x 23 cm (23 x 16 x 9 in)	55.2 kg (121.7 lb) / 76.7 kg (169.0 lb)
	58 x 41 x 23 cm (23 x 16 x 9 in)
,	71.1 x 57.2 x 39.4 cm (28.0 x 22.5 x 15.5 in)
P degree of protection IP20	
Departing air temperature range -25°C to 70°C (-13°F to 158°F) (power derate	d above 25°C (77°F)
Varranty (Depending on the country of installation) 2 or 5 years	2 or 5 years
eatures	
System monitoring and network communications Available	
	prioritized consumption of battery or external DC energy
Auxiliary port 0 to 12 V, maximum 250 mA DC output, selec	·
Off-grid AC coupling Frequency control	
Regulatory approval	
CE marked according to the following EU directives and standards:	
EMC directive EN61000-6-1, EN61000-6-3, EN61000-3-2	
.ow voltage directive EN50178	
<u>-</u>	
iafety IEC 62109-1, IEC 62109-2	
ICM marked and compliant AS 4777.2, AS 4777.3	
Compatible products	
Conext XW+ Power Distribution Panel 865-1014-01	
Conext System Control Panel 865-1050	
Conext Automatic Generator Start 865-1060	
Conext MPPT 60 150 865-1030-1	
Conext MPPT 80 600 865-1032	
Conext ComBox 865-1058	
Conext Battery Monitor 865-1080-01	
Conext Battery Fuse Combiner Box 865-1031-01  Conext Portable Installation and Configuration Tool Product no. 865-1155-01	

Specifications are subject to change without notice.