

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

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	InsightHome (865-0330), InsightFacility (865-0335)	
Accessories	Automatic Generator Start (865-1060), Battery Monitor (865-1080-01), Configuration Tool (865-1155-01)	