Life Is On

XW Pro 6.8/8.5 kW Hybrid Inverter for North America

865-6848-21

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Protect your home's power supply when the grid goes out. Save on energy costs with utility time of use and demand charge optimization. The XW Pro solar hybrid inverter is the heart of your home power system, connecting solar and battery storage with the grid for backup power and energy security. 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

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 battery integration
- Grid tied and off-grid systems, Rule 21, HECO Rule 14H and PREPA compliant

Easy to install

- Configures quickly using Insight
- AC Out port for backuploads
- Full ecosystem and accessories for single unit or scalable systems

Smart energy management

- Optimize energy consumption for time of use rates or demand charges
- Self-consumption of solar energy

Compatible with Insight

- Remote monitoring & control with advanced data security
- Web and mobile app
- Multi-site management for installers



Technical Specifications

	XW Pro 6848 NA	XW Pro 6848 NA	
	120/240 V	120 V	
nverter AC Output (Standalone)			
Dutput power (continuous) at 25°C	6800 W	5760 W	
Dverload 30 min/60 sec at 25°C	8500 W/12000 W	7200 W/12000 W	
Dutput power (continuous) at 40°C	6000 W	5760 W	
Maximum output current 60 seconds (rms)	52 A (240 V)	104 A (120 V)	
Dutput frequency	50/60 Hz	50/60 Hz	
Dutput voltage	Split phase 120/240 V +/- 3%	120 V +/- 3%	
otal harmonic distortion at rated power	< 5 %	< 5 %	
dle consumption search mode	< 8 W	< 8 W	
nput DC voltage range	40 to 64 V (48 V nominal)	40 to 64 V (48 V nominal)	
Aaximum input DC current	180 A	180 A	
Charger DC Output			
Iaximum output charge current	140 A	120 A	
Dutput 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		
Battery bank range	440 – 10000 Ah		
AC Input			
AC 1 (grid) input current (selectable limit)	3 – 60 A (60 A default)	3 – 60 A (60 A default)	
C 2 (generator) input current (selectable limit)	3-60 A (60 A default)	3 – 60 A (60 A default)	
utomatic transfer relay rating/typical transfer time	60 A / 8 ms	60 A / 8 ms	
C input voltage limits (bypass/charge mode)	L-L: 156 - 280 V (240 V nominal)	L-N: 78 - 140 V (120 V nominal)	
C 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)	
fficiency			
Peak	95.1%	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)		
P degree of protection	NEMA Type 1 Indoor		
Dperating 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)		
ntelligent features	Grid sell, peak load shave, generator support, solar self-supply		
Auxiliary port	0 to 12 V, maximum 250 mA DC output, selectable triggers		
Dff-grid AC coupling	Frequency shifting		
Regulatory Approval			
Safety	UL1741, CSA 107.1		
EMC directive	FCC and Industry Canada Class B		
nterconnect	IEEE 1547, UL 1741-SA, Rule 21, Rule 14H, PREPA, and CSA 107.1		
Compatible Products Part Numbers			
	XW Mini PDP (865-1013-01), XW PI	DP XW PDP without AC Breakers	
Power Distribution Panels	(865-1015-01)	(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)		
	Automatic Generator Start (865-106		
Accessories	Configuration Tool (865-1155-01)		

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