

Technical Specifications

Conext™ XW Pro 8.5 kW 230V (IEC)	
Inverter AC output (standalone)	
Output power (continuous) at 25°C	6800 W
Overload 30 min/60 sec at 25°C	8500 W / 12000 W
Output power (continuous) at 40°C	6000 W
Maximum output current 60 seconds (rms)	53 A
Output frequency	50/60 Hz
Output voltage	230 V +/- 3%
AC Output Frequency	50.0 +/- 0.1 Hz
Total harmonic distortion at rated power	< 5 %
Idle consumption search mode	< 7 W
Input DC voltage range	40 to 64 V (48 V nominal)
Maximum input DC current	180 A
Charger DC output	
Maximum output charge current	140 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 (56 A default)
AC 2 (generator) input current (selectable limit)	3 – 60 A (56 A default)
Automatic transfer relay rating/typical transfer time	60 A/8 ms
AC input voltage range	165 - 280 V
AC input frequency range (bypass/charge mode)	45 – 55 Hz (default) 40 – 68 Hz (allowable)
AC grid-tie output	
Grid sell current (selectable)	0 to 27 A
Grid sell power	6000W
Efficiency	
Peak	95.0%
General specifications	
Model Name & Part number	XW Pro 8548; 865-8548-55
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	IP 20
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 consumption
Auxiliary port	0 to 12 V, maximum 250 mA DC output, selectable triggers
Off-grid AC coupling	Frequency shifting
Regulatory approval (pending)	
Safety	IEC/EN 62109-1/-2
EMC directive	IEC/EN61000-6-1, IEC/EN61000-6-3, IEC/EN61000-3-12
Interconnect	IEC/EN 61727, IEC/EN 62116
Compatible products part numbers	
Power Distribution Panels	XW PDP (865-1014-01)
MPPT Charge Controllers	MPPT 80 600 (865-1032), MPPT 60 150 (865-1030-1)
Monitoring & Configuration	Insight
Accessories	System Control Panel (865-1050), Automatic Generator Start (865-1060), Battery Monitor (865-1080-01), Battery Fuse Combiner Box (865-1031-01)