

XW Pro

6.8/8.5 kW Hybrid Inverter for Australia

XW Pro 8548: 865-8548-55



The XW Pro hybrid inverter provides energy security for residential, small commercial and offgrid 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

Flexible

- 230 V output, single phase and 400 V output, 3-phase
- Stacking up to 4 units (27.2 / 34 kW) in single phase and up to 6 units (40.8 / 51 kW) in 3-phase
- Connect 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

Easy to install

- AC Out port for backup loads
- 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

| Conext™ XW Pro 6.8/8.5 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 | 5000 W |
| Efficiency | |
| Peak | 95.0% |
| European Efficiency | 93.44% |
| General specifications | |
| Model Name & Part number | XW Pro 8548; 865-8548-55 |
| Product/shipping weight | 55.5 kg (122.3 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 65°C (-13°F to 149°F) (power derated above 25°C (77°F)) |
| Country of manufacturing | India |
| 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 | |
| Safety | IEC/EN 62109-1, IEC/EN 62109-2, AS 62040.1 |
| EMC directive | IEC/EN61000-6-1, IEC/EN61000-6-3 |
| Interconnect | IEC/EN 62116, AS/NZS 4777.2, Short Duration Undervoltage Disturbance Ride-Through Appendix A1 |
| Compatible products part numbers | |
| Power Distribution Panels | XW PDP (865-1014-01) |
| MPPT Charge Controllers | MPPT 100 600(865-1034), MPPT 80 600 (865-1032), MPPT 60 150 (865-1030-1) |
| Monitoring & Configuration | Insight |
| Accessories | Automatic Generator Start (865-1060), Battery Monitor (865-1080-01), Conext Response-Demand Response Enabling Device for DRM0 (865-1170) |