

Technical Specifications

| | MPPT 80 600 | MPPT 100 600 |
|--|---|-------------------------------|
| Electrical Specifications | | |
| Max PV array open circuit voltage | 600 V | 600 V |
| MPPT voltage range | 195 to 510 VDC | 195 to 510 VDC |
| PV array operating voltage | 195 to 550 V | 195 to 550 V |
| Input start-up voltage | 195 A | 195 A |
| Max. array short circuit current at STC | 28 A | 35 A |
| Rated input current | 23 A | 29 A |
| Rated output power | 4800 W (nominal 48 V systems) | 6000 W (nominal 48 V systems) |
| Nominal battery voltage | 24 and 48 VDC | 24 and 48 VDC |
| Battery voltage operating range | 16 to 67 VDC | 16 to 67 VDC |
| Rated output current | 80 A | 100 A |
| Charger regulation method | Three-stage (bulk, absorption, float) plus manual equalization Two-stage (bulk, absorption) plus manual equalization | |
| Supported battery types | Flooded, GEL, AGM, Lithium-ion, Custom | |
| Efficiency | | |
| Max. power conversion efficiency | 95% (nominal 48 V), 92% (nominal 24 V) | |
| General Specifications | | |
| Power consumption, night time | < 1 W | |
| Battery temperature sensor | Included | |
| Auxiliary output | Dry contact switching up to 60 VDC, 30 VAC, 8 A | |
| Enclosure material | Enclosure material: Indoor, ventilated, aluminium sheet metal chassis | |
| Knockout dimensions | 44.0 mm, 35.0 mm, 28.2 mm, and 22.2 mm knockouts for 1-1/4, 1, 3/4, and 1/2 inch trade size fittings | |
| IP degree of protection | IP20 | |
| Product weight | 13.5 kg (29.8 lb) | |
| Shipping weight | 20.4 kg (45 lb) | |
| Product dimensions (H x W x D) | 76.0 x 22.0 x 22.0 cm (30.0 x 8.6 x 8.6 in) | |
| Shipping dimensions (H x W x D) | 113.39 x 28.68 x 31.90 cm (44.64 x 11.29 x 12.56 in) | |
| Ambient air temperature for operation | -20 °C to 65 °C (-4 °F to 149 °F), power derating above 40 °C | |
| Storage temperature range | -40 °C to 85 °C (-40 °F to 185 °F) | |
| Operating altitude | Sea level to 2000 m (6562 ft) | |
| System network and remote monitoring | Available with Insight Energy Management | |
| Warranty | Please refer to our website, solar.se.com for the latest version of the warranty statement. | |
| Country of origin | India | |
| Part number | 865-1032 | 865-1034 |
| Regulatory Approvals | | |
| Safety | CSA certified (UL1741, CSA 107.1) and CE marked for the Low-voltage Directive (EN50178) | |
| EMC | FCC and Industry Canada (Class B), CE marked for the EMC Directive (EN61000-6-1, -6-3) | |
| Compatible Products List | | |
| XW Pro hybrid inverter | XW Pro 6848 120/240 VAC (865-6848-21), XW Pro 8548 230 VAC 865-8548-55) | |
| XW+ hybrid inverter | XW+ 8548 230 VAC (865-8548-61) | |
| SW IEC (230 VAC) | SW 4024 230 VAC (865-4024-55), SW 4048 230 VAC (865-4048-55) | |
| SW UL (120/240 VAC) | SW 4024 120/240 VAC (865-4024-21), SW 4048 120/240 VAC (865-4048-21) | |
| XW Power Distribution Panels | 865-1015-01, 865-1014-01 | |
| XW Mini Power Distribution Panels | 865-1013-01 | |
| MPPT Disconnect RS and RS initiator Switch | 865-1036, 865-1039 | |
| Insight Energy Management | InsightHome (865-0330), InsightFacility (865-0335), Insight | |
| Conext Automatic Generator Start | 865-1060-01 | |
| Conext Battery Monitor | 865-1080-01 | |