

# Xantrex™ XW Automatic Generator Start



The Xantrex™ XW Automatic Generator Start (XW AGS) will automatically activate a generator to provide an XW Series Hybrid Inverter/Charger with power to recharge a depleted battery bank or provide additional power for heavy loads. The XW AGS adds intelligence to generator management, thereby eliminating time spent monitoring batteries and inverter loads. It does this by continuously monitoring the battery voltage, state-of-charge, or the inverter charge mode, starting and stopping the generator when the battery needs additional charging. The XW AGS will also start the generator to assist the system's inverter/charger(s) when output power demands are high.

The XW AGS can be customized to suit each user's preferences. The user can define whether the generator should be activated by low-battery voltage, state-of-charge, thermostat operation, or load on the inverter(s). A quiet time setting prevents the generator from starting at inconvenient times. LED lights display the status of the XW AGS, while all user-defined settings are programmed through the XW System Control Panel (XW SCP).

## **Operational Features**

- Compatibility the XW AGS connects to other Xanbus™-enabled XW System devices without requiring additional hubs, control cards, or other device-specific control panels
- ▶ Works with AC or DC generators with either two-wire or three-wire start controls
- Configurability comprehensive customizable triggers based on low-battery voltage, change in charging state, high inverter load, thermostat signals, planned exercise periods, maximum run time, and quiet-time settings
- Non-volatile memory preserves XW AGS settings even if the network power is interrupted or network communication is disrupted

Note: The XW AGS requires an XW System Control Panel (XW SCP) for configuration and monitoring.

## **Product Features**

- ▶ LED display showing at-a-glance status
- 20-contact generator connector and three built-in relays support 13 preset generator configurations
- ▶ Built-in emergency shutdown
- ▶ Xanbus™-enabled

#### Interfaces with:

XW Hybrid Inverter/Chargers, XW Solar Charge Controllers, and XW System Control Panel

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# **Xantrex™** Automatic Generator Start

Mechanical SpecificationsDimensions (H x W x D)3.75 x 5.75 x 1.5" (95.5 x 146 x 37 mm)Weight0.5 lb (0.225 kg)Shipping weight1.70 lb (0.77 kg)Dimensions (shipping)10.5 x 8.5 x 2.5" (267 x 216 x 64 mm)ConnectorsTwo Xanbus™ RJ45-8 pinsOne 20-contact pluggable connector (Tyco Mate 'n' Lok two connector) - Wiring harness includedMountingWall mount, 4 x #6 screws included	<b>Electrical Specifications</b>	
Communication         Physical layer 2, CAN           Relay contact voltage rating         12 Vdc, 20 Vdc max           Maximum relay contact current         5 Adc           Communication protocol         Xanbus           Maximum cable length         130′ (40 m)           Mechanical Specifications           Dimensions (H x W x D)         3.75 x 5.75 x 1.5″ (95.5 x 146 x 37 mm)           Weight         0.5 lb (2.25 kg)           Shipping weight         1.70 lb (0.77 kg)           Dimensions (shipping)         10.5 x 8.5 x 2.5″ (267 x 216 x 64 mm)           Connectors         1 Wo Xanbus ™ RJ45-8 pins           Mounting         Wall mount, 4 x #6 screws included           Standard warranty         Five years           Part number         865-1060           Environmental Specifications           Enciosure type         Indoor           Operating temperature range         4 to 12.2° f (20 to 50°C)           Storage temperature         40 to 185° f (40 to 85° C)           Regulatory Approvals           CSA certified to CSA 107.1, and UL 458, FCC Class 8 to August           Optional Accessories         Section 10 (2.0 m)           Si feet (7.6 m)         809-0935           25 feet (7.6 m)         809-0936 <td>Nominal input network voltage</td> <td>15 Vdc</td>	Nominal input network voltage	15 Vdc
Relay contact voltage rating         12 Vdc, 30 Vdc max           Maximum relay contact current         5 Adc           Communication protocol         Xanbus           Maximum cable length         30" (40 m)           Mechanical Specifications           Dimensions (H x W x D)         0.5 lib (0.225 kg)           Shipping weight         1.70 lib (0.77 kg)           Dimensions (shipping)         1.5 x 8.5 x 2.5" (267 x 216 x 64 mm)           Connectors         Two Xanbus ** M246 34 pm.           Connectors         1.0 w 20-contact pluggable connector (Tyco Mate 'n' Lok two connector) - Wiring harness included           Mounting         Wall mount, 4 x #6 screws included           Standard warranty         Five years           Part number         865-1060           Environmental Specifications           Enclosure type         Indoor           Coperating temperature range         4 to 122°F (-20 to 50°C)           Storage temperature         40 to 185°F (-40 to 85°C)           Coperating temperature range           CSA certifiel to CSA 107.1, and UL 458, FCC Class 8 to 14 to 122°F (-20 to 50°C)           Coperating to provide to 15 to	Maximum operating current	200 mA
Maximum relay contact current         5 Adc           Communication protocol         Xanbus           Maximum cable length         130' (40 m)           Mechanical Specifications           Dimensions (H x W x D)         3.75 x 5.75 x 1.5' (95.5 x 146 x 37 mm)           Weight         0.5 lb (0.225 kg)           Shipping weight         1.70 lb (0.77 kg)           Dimensions (shipping)         10.5 x 8.5 x 2.5' (267 x 216 x 64 mm)           Connectors         Two Xanbus Tw RJ458 pins           Mounting         Wall mount, 4 x #6 screws included           Standard warranty         Five years           Part number         865-1060           Enclosure type           Operating temperature range         4 to 122°F (-20 to 50°C)           Storage temperature         40 to 185°F (-40 to 85°C)           Regulatory Approvals         CSA certified to CSA 107.1, and UL 458, FCC Class 8 and Industry Canada, CE           Optional Accessories         Network cables:           Steet (0.6 m)         809-0935           25 feet (7.6 m)         809-0940           50 feet (15.2 m)         809-0941	Communication	Physical layer 2, CAN
Communication protocol         Xanbus           Maximum cable length         130' (40 m)           Mechanical Specifications           Dimensions (H x W x D)         3.75 x 5.75 x 1.5" (95.5 x 146 x 37 mm)           Weight         0.5 lb (0.225 kg)           Shipping weight         1.70 lb (0.72 kg)           Dimensions (shipping)         10.5 x 8.5 x 2.5" (267 x 216 x 64 mm)           Connectors         Two Xanbus <sup>100</sup> R48-58 pins           Mounting         Wall mount, 4 x #6 screws included           Standard warranty         Five years           Part rumber         865-1060           Environmental Specifications           Enciosure type         Indoor           Operating temperature range         4 to 122°F (-20 to 50°C)           Storage temperature         40 to 185°F (-40 to 85°C)           Regulatory Approvals           CSA certified to CSA 107.1, and UL 458, FCC Class B and Lousty Canada, CE           Optional Accessories           Network, cables:         309-0935           25 feet (7,6 m)         809-0935           26 feet (1,5 2 m)         809-0940	Relay contact voltage rating	12 Vdc, 30 Vdc max
Mechanical Specifications   Max Way D)   3.75 x 5.75 x 1.5" (95.5 x 146 x 37 mm)   Meight   0.5 lb (0.225 kg)   Mensions (kh yw x D)   0.5 lb (0.225 kg)   Mensions (khipping)   0.5 x 8.5 x 2.5" (267 x 216 x 64 mm)   Mensions (khipping)   0.5 x 8.5 x 2.5" (267 x 216 x 64 mm)   Mensions (khipping)   0.6 y x 8.5 x 2.5" (267 x 216 x 64 mm)   Mensions (khipping)   Mensions (	Maximum relay contact current	5 Adc
Mechanical Specifications  Dimensions (H x W x D) 3.75 x 5.75 x 1.5" (95.5 x 146 x 37 mm)  Weight 0.5 lb (0.225 kg)  Shipping weight 1.70 lb (0.77 kg)  Dimensions (Shipping) 10.5 x 8.5 x 2.5" (267 x 216 x 64 mm)  Connectors Two Xanbus™ RIA5-8 pins One 20-contact pluggable connector (Tyco Mate 'n' Lok two connector) - Wiring hamess included  Mounting Wall mount, 4 x #6 screws included  Standard warranty Five years  Part number 865-1060  Environmental Specifications  Enclosure type Indoor Operating temperature range -4 to 122°F (-20 to 50°C)  Storage temperature -40 to 185°F (-40 to 85°C)  Regulatory Approvals  CSA certified to CSA 107.1, and UL 458, FCC class B and Industry Canada, CE  Optional Accessories  Network cables: 3 feet (0.9 m) 809-0935 3 feet (0.7 m) 809-0940 50 feet (15.2 m) 809-0941	Communication protocol	Xanbus
Dimensions (H x W x D)         3.75 x 5.75 x 1.5" (95.5 x 146 x 37 mm)           Weight         0.5 lb (0.225 kg)           Shippin weight         1.70 lb (0.77 kg)           Dimensions (shipping)         15 x 8.5 x 2.5" (267 x 216 x 64 mm)           Connectors         Two Xanbus™ RJ45-8 pins           One 20-contact pluggable connector (Tyco Mate 'n' Lok two connector) - Wirring harness included           Mounting         Wall mount, 4 x #6 screws included           Standard warranty         Five years           Part number         865-1060           Environmental Specifications           Enclosure type         Indoor           Operating temperature range         4 to 122* € (20 to 50°C)           Storage temperature         40 to 185° € (40 to 85°C)           Regulatory Approvals           Cy certified to CSA 107.1, and UL 458, FCC Class B to Locate and CE           Optional Accessories           Steet (7.6 m)           809-0935           25 feet (7.6 m)         809-0940           50 feet (15.2 m)         809-0941	Maximum cable length	130' (40 m)
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Specifications subject to change without notice.

For more information on the XW System please visit www.xantrex.com/xw