



THOR Series - Power Supplies
Rugged industrial battery-backed power sources for SCADA systems

Product Data Sheet

New!

Battery-backed DC Power Supply

100 watts of reliable SCADA system power under harsh conditions

- High-efficiency switching power supply with battery backup
- 12Vdc, 24Vdc, and Combo 12/24Vdc models available
- Autosense 120/240Vac, 125/250Vdc Input Power
- Short Circuit, Overload, and Overvoltage Protected
- Separate Low Battery, Power Fail and Fault Alarm Contacts
- Low battery cutoff protects battery from deep discharge damage
- Optional redundant bridging – parallel two or more supplies (contact factory)
- Convection cooled – no fans or filters
- 12/24Vdc model only requires a single 12Vdc battery (built-in converter)
- Supports low-cost Gel-Cell batteries from 7AH to 40AH
- DIN rail and panel mounting
- Wide operating temperature range: -20°C to +70°C
- 3-year factory warranty on parts and labor



THOR Battery-backed DC Power Supply

THOR Battery-backed DC Power Supplies

provide clean regulated power for controllers, RTUs and sensors. When input power is lost, these supplies perform a glitch free automatic switchover to backup batteries. When input power is restored, power is switched back and the batteries are recharged in preparation for the next outage.

12Vdc and 24Vdc Power - These versatile supplies are available in 12Vdc, 24Vdc, and 12/24Vdc configurations to support most any monitoring or control application.

Short Circuit and Overload

Protection - All output power is protected against overloads and short circuits. No external fusing is required.

Battery Protection

- THOR Power Supplies prevent deep discharge battery damage by automatically disconnecting the load when the batteries are nearly depleted.

High Efficiency - THOR Battery-backed Power Supplies use the latest high-frequency switching technology, accepting a wide range of AC and DC input voltages without bulky inefficient transformers, selector switches or jumpers. Only convection air flow is required for operation from -20°C to +70°C. Designed especially for SCADA applications, these supplies are surge rated to handle high peak demands such as high power radios and electromechanical control devices.

Three Relay Alarm Outputs

- THOR Battery-backed DC Power Supplies have individual alarm contacts for Low Battery, Power Failure and Fault conditions, providing early warning notification before a system completely shuts down.

Flex-power Input - Supports a wide range of AC and DC input power for use around the world and in many types of SCADA systems.

Wide Operating Temperature Range -

SCADA systems must operate in harsh industrial environments and temperature extremes. These supplies are rated to compliment the performance and endurance of your tough SCADA equipment.

Redundant Power Support -

THOR Battery-backed DC Power Supplies can be ordered with a redundancy option that enables multiple supplies to be bridged together for systems with extreme uptime requirements. Please contact your factory representative for more information on this feature as well as ordering information.

Rugged Reliability -

THOR Battery-backed Power Supplies are 100% tested over an extended temperature range of -20°C to 70°C, and backed by an industry leading 3-year factory parts and labor warranty.

Specifications

12Vdc Model

Output Voltage	13.7Vdc nominal
w/Input Power	User adjustable from 12Vdc to 15Vdc
w/battery power	9.5Vdc to 13.2Vdc depending on battery voltage (Battery Voltage - 0.5Vdc)
Output Current	4.75A with battery, 7A without battery
Battery	12Vdc Gel-Cell (user supplied)
Charge Current	2.5A
Low Warning	<11Vdc
Low Battery Cutoff	10Vdc +/- 0.5Vdc
Efficiency	86%

24Vdc Model

Output Voltage	27.6Vdc nominal
w/Input Power	User adjustable from 24Vdc to 29Vdc
w/battery power	19Vdc to 26.9Vdc depending on battery voltage (Battery Voltage - 0.5Vdc)
Output Current	2.4A
Battery	2 x 12Vdc Gel-Cell (user supplied)
Charge Current	1.25A
Low Warning	<22Vdc
Low Battery Cutoff	20Vdc +/- 1Vdc
Efficiency	88%

12/24Vdc Model

Output Voltage - 12V Output	13.7Vdc nominal
w/Input Power	User adjustable from 12Vdc to 15Vdc
w/battery power	9.5Vdc to 13.2Vdc depending on battery voltage (Battery Voltage - 0.5Vdc)
Output Current	4.75A with battery, 7A without battery *
Output Voltage - 24V Output	24 Vdc nominal
w/Input Power	24Vdc +/- 0.5Vdc
w/battery power	24Vdc +/- 0.5Vdc
Output Current	1.25A*
	*Do not exceed total of 65 watts combined between the two outputs (w/battery), 100watts combined w/o battery
Battery	12Vdc Gel-Cell (user supplied)
Charge Current	2.5A
Low Warning	<11Vdc
Low Battery Cutoff	10Vdc +/- 1Vdc
Efficiency	82%

Input Power

Voltage	90 to 264Vac (47Hz to 63Hz), 127 to 370Vdc
Current	2A (115Vac in), 1.2A (230Vac in)

Output Power

Load Output	100 watts (no battery), 65 watts (with battery)
Line Regulation	+/- 0.5%
Load Regulation	+/- 0.5%
Temperature Derating	-20°C to +50°C - no derating. Derate 2.5%/°C from 50°C, up to 50% at 70°C

General

Terminal Blocks	Removable, 5.08mm (0.2"), 12 to 22AWG, 15A/contact maximum
Mounting	35mm. DIN rail or panel mount
Dimensions	1.4"W x 3.7"H x 3.8"D (includes terminal block and elevation off panel on DIN rail)
Warranty	3 years, factory parts and labor

Part Number

90-0021	12Vdc, 60/100W Battery-backed DC Power Supply
90-0022	24Vdc, 60/100W Battery-backed DC Power Supply
99-0023	12/24Vdc, 60/100W Battery-backed DC Power Supply

Represented by:

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