



PT-100 CHARGE CONTROLLER Maximize Energy Harvest and Improve Battery Life

Model Numbers

PT-100

Available For

 Renewable Energy Systems Off-grid Power Back-up Power

Works With

- ME Series
- MM-AE Series
- MM-E Series
- MMS Series
- MMS-E Series
- MS Series
- MS-AEJ Series
- MS-E Series
- MSH Series
- MS-PAE Series
- MS-PE Series
- MMP Panel System
- MMP-E Panel System
- MP Panel System
- MP-E Panel System
- RD Series
- RD-E Series

Available Configurations

- Works as a stand-alone controller using internal settings
- Works with a Magnum-Dimensions Inverter/Charger and Magnum-Dimensions Remote. Menu settings for the PT-100 are currently only available via the ME-ARC Remote

The PT-100 is a Maximum Power Point Tracker (MPPT) charge controller designed to harvest the maximum available energy from the PV array and deliver it to the batteries. The PT-100's MPPT algorithm finds the maximum power point of the array and operates at this point while regulating the output current to 100 amps and battery voltage to fully charge the battery.

Features

- High Efficiency: The PT-100 provides typical 99% conversion efficiency and uses less than four watts of power in nighttime mode.
- MPPT: Maximum Power Point Tracking technology for increased PV power output efficiency.
- Voltage Options: Compatible with 12, 24, or 48V battery systems with automatic detection of system voltage. The PT-100 will produce up to 100 amps regardless of battery voltage.
- Supports a Large PV Array:
 A single controller supports a large PV array up to 6600W. Larger PV arrays may be used because the PT-100 is current limited to 100 amps for maximum harvest.
- Optimal Battery Charging:
 Automatic battery temperature compensation using an included external temperature sensor for optimum battery charging, even during extreme temperature changes.
- Multi-stage Charging:
 Maximizes system performance and improves battery life.
- GFDI: Integrated PV Ground-Fault Detection and Interruption/ Indication, with pre-fault leakage/ diagnostic metering.
- Multiple LED indicators and large digital LED screen on front panel for easy-to-read system information.

- On-site Updates: The PT-100's software can be updated on site.
- Extensive Electronic Protection:

 Over-temperature protection, power derating when temperature is high,

 PV short circuit and high PV input shutdown, output overcurrent protection and night-time back-feed (reverse current) protection.
- AFCI: An integrated PV Arc-Fault Circuit Interrupter detects, indicates, and extinguishes series arcs.
- Convenient Installation: Run all of the wiring to the unique, remain-inplace wiring box with ease prior to installing the full PT-100 unit.
- Easy MP and MMP integration:
 The PT-100 is designed to work with a Magnum Panel (MP) or Mini-Magnum Panel (MMP). It provides room and access to PV and battery disconnect breakers.

Even More Functionality with the Optional Remote

- Built-in programmable auxiliary relay for device control.
- Internal data logging functionality keeps energy harvest information and battery Ahr/Whr data up to 255 days. Use the optional remote to display this information.

PT-100 CHARGE CONTROLLER SPECIFICATIONS

Maximum PV input voltage (any condition) Maximum PV operating voltage 187 VDC Maximum PV operating voltage 187 VDC Mominal battery voltage range 112, 24, or 48 VDC Battery charger output voltage range 112, 24, or 48 VDC Battery charger output voltage range 110 to 66 VDC Continuous charger output current 100 ADC (from -20 °C to +40 °C) with proportional power reduction up to 60 °C ambient Maximum output power 6600 watts Efficiency 99% typical Tare loss / nighttime power consumption Charger regulation method Automatic three-stage (bulk, absorption, float) charge with manual equalization ENERAL FEATURES AND CAPABILITIES Battery temperature compensation With Battery Temperature Sensor (BTS) connected (battery temperature -20 °C to +55 °C) Internal cooling Using dual ball-bearing fans for long life Over-temperature protection With two overlapping circuits Our transformer and MOSFETS Listings ETL Listed to UL/cUL 1741, CSA C22.2 ±107.1-01, CE Five years parts and labor NVIRONMENTAL SPECIFICATIONS Operating temperature -20° C to +60° C (-40° F to 158° F) Operating temperature -40° C to +70° C (-40° F to 158° F) Operating temperature -40° C to +70° C (-40° F to 158° F) Operating temperature -40° C to +70° C (-40° F to 158° F) Operating temperature -40° C to +70° C (-40° F to 158° F) Operating temperature -40° C to +70° C (-40° F to 158° F) Operating temperature -40° C to +70° C (-40° F to 158° F) Operating temperature -40° C to +70° C (-40° F to 158° F) Operating temperature -40° C to +70° C (-40° F to 158° F) Operating temperature -40° C to +70° C (-40° F to 158° F) Operating temperature -40° C to +70° C (-40° F to 158° F) Operating temperature -40° C to +70° C (-40° F to 158° F) Operating temperature -40° C to +70° C (-40° F to 158° F) Operating temperature -40° C to +70° C (-40° F to 158° F) Operating temperature -40° C to +70° C (-40° F to 158° F) Operating temperature -40° C to +70° C (-40° F to 158° F) Operating temperature -40° C to +70° C (-40° F	1-100 CHANGE CONTROLLEN	
Maximum PV input voltage (any condition) Maximum PV operating voltage 187 VDC Maximum PV array short circuit current 100 ADC Nominal battery voltage range 112, 24, or 48 VDC Battery charger output voltage range 10 to 66 VDC Continuous charger output voltage range 10 ADC (from -20 °C to +40 °C) with proportional power reduction up to 60 °C ambient Maximum output power Efficiency 99% typical Tare loss / nighttime power consumption Charger regulation method Automatic three-stage (bulk, absorption, float) charge with manual equalization ENERAL FEATURES AND CAPABILITIES Battery temperature compensation Nuith Battery Temperature Sensor (BTS) connected (battery temperature -20 °C to +55 °C) Internal cooling Over-temperature protection With two overlapping circuits Over-temperature protection On transformer and MOSFETS Listings ETL Listed to UL/cUL 1741, CSA C222 #107.1-01, CE Five years parts and labor NVIRONMENTAL SPECIFICATIONS Operating temperature -20° C to +60° C (-40° F to 180° F) Operating temperature -40° C to +70° C (-40° F to 185° F) Operating humidity O to 95% RH non condensing HYSICAL SPECIFICATIONS Enclosure type Indoor, ventilated, with removable powder-coated conduit box Unit dimensions (w x h x d) 8.5" x 15.5" x 4.0" (21.6 cm x 39.4 cm x 10.2 cm) Shipping dimensions (w x h x d) Mounting Mounted on a vertical surface (wall) or installed on MP or MMP enclosure Weight 13.6 lb (6.2 kg) Shipping weight		PT-100
Maximum PV operating voltage 187 VDC Maximum PV array short circuit current 100 ADC Nominal battery voltage range 12, 24, or 48 VDC Battery charger output voltage range 10 to 66 VDC Continuous charger output current 100 ADC (from -20 °C to +40 °C) with proportional power reduction up to 60 °C ambient Maximum output power 6600 watts Efficiency 99% typical Tare loss / nighttime power consumption Charger regulation method Automatic three-stage (bulk, absorption, float) charge with manual equalization IENERAL FEATURES AND CAPABILITIES Battery temperature compensation With Battery Temperature Sensor (BTS) connected (battery temperature -20 °C to +55 °C) Internal cooling Over-temperature protection Over-temperature -20 °C to +60 °C (-4° F to 140 °F) NVIRONMENTAL SPECIFICATIONS Operating temperature -40 °C to +70 °C (-40 °F to 158 °F) Operating temperature -40 °C to +70 °C (-40 °F to 158 °F) Operating humidity 0 to 95% RH non condensing HYYSICAL SPECIFICATIONS Enclosure type Indoor, ventilated, with removable powder-coated conduit box Unit dimensions (w x h x d) 8.5" x 15.5" x 4.0" (21.6 cm x 39.4 cm x 10.2 cm) Shipping dimensions (w x h x d) Mounted on a vertical surface (wall) or installed on MP or MMP enclosure Weight Shipping weight Shipping weight	ELECTRICAL SPECIFICATIONS	
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Nominal battery voltage range Battery charger output voltage range 12, 24, or 48 VDC Battery charger output voltage range 10 to 66 VDC Continuous charger output current 100 ADC (from -20 °C to +40 °C) with proportional power reduction up to 60 °C ambient Maximum output power 6600 watts Efficiency 99% typical Tare loss / nighttime power consumption Charger regulation method Automatic three-stage (bulk, absorption, float) charge with manual equalization ENERAL FEATURES AND CAPABILITIES Battery temperature compensation With Battery Temperature Sensor (BTS) connected (battery temperature -20 °C to +55 °C) Internal cooling Using dual ball-bearing fans for long life Overcurrent protection With two overlapping circuits Over-temperature protection On transformer and MOSFETS Listings ETL Listed to UL/CUL 1741, CSA C22.2 #107.1-01, CE Warranty Five years parts and labor NVIRONMENTAL SPECIFICATIONS Operating temperature -20° C to +60° C (-4° F to 140° F) Nonoperating temperature -40° C to +70° C (-40° F to 158° F) Operating humidity 0 to 95% RH non condensing HYSICAL SPECIFICATIONS Enclosure type Indoor, ventilated, with removable powder-coated conduit box Unit dimensions (w x h x d) Sipping dimensions (w x h x d) Sipping dimensions (w x h x d) Shipping dimensions (w x h x d) Shipping dimensions (w x h x d) Shipping weight 13.6 lb (6.2 kg) Shipping weight	Maximum PV operating voltage	187 VDC
Battery charger output voltage range 10 to 66 VDC Continuous charger output current 100 ADC (from -20 °C to +40 °C) with proportional power reduction up to 60 °C ambient Maximum output power 6600 watts Efficiency 99% typical Tare loss / nighttime power consumption Charger regulation method Automatic three-stage (bulk, absorption, float) charge with manual equalization IENERAL FEATURES AND CAPABILITIES Battery temperature compensation With Battery Temperature Sensor (BTS) connected (battery temperature -20 °C to +55 °C) Internal cooling Using dual ball-bearing fans for long life Over-temperature protection With two overlapping circuits Over-temperature protection On transformer and MOSFETS Listings ETL Listed to UL/cUL 1741, CSA C22.2 #107.1-01, CE Warranty Five years parts and labor NVIRONMENTAL SPECIFICATIONS Operating temperature -20° C to +60° C (-4° F to 140° F) Nonoperating temperature -40° C to +70° C (-40° F to 158° F) Operating humidity 0 to 95% RH non condensing HYSICAL SPECIFICATIONS Enclosure type Indoor, ventilated, with removable powder-coated conduit box Unit dimensions (w x h x d) Shipping dimensions (w x h x d) 11.5" x 19.5" x 8.125" (29.2 cm x 49.5 cm x 20.6 cm) Mountting Mountting Mounted on a vertical surface (wall) or installed on MP or MMP enclosure Weight 13.6 lb (6.2 kg) Shipping weight	Maximum PV array short circuit current	100 ADC
Continuous charger output current 100 ADC (from -20 °C to +40 °C) with proportional power reduction up to 60 °C ambient Maximum output power 6600 watts Efficiency 99% typical 4 watts (fan off, display/LEDs off) Charger regulation method Automatic three-stage (bulk, absorption, float) charge with manual equalization ENERAL FEATURES AND CAPABILITIES Battery temperature compensation With Battery Temperature Sensor (BTS) connected (battery temperature -20 °C to +55 °C) Internal cooling Using dual ball-bearing fans for long life Overcurrent protection With two overlapping circuits Over-temperature protection On transformer and MOSFETS Listings ETL Listed to UL/cUL 1741, CSA C22.2 #107.1-01, CE Warranty Five years parts and labor NVIRONMENTAL SPECIFICATIONS Operating temperature -20° C to +60° C (-4° F to 158° F) Operating temperature -40° C to +70° C (-40° F to 158° F) Operating humidity 0 to 95% RH non condensing HYSICAL SPECIFICATIONS Enclosure type Indoor, ventilated, with removable powder-coated conduit box Unit dimensions (w x h x d) 8.5" x 15.5" x 4.0" (21.6 cm x 39.4 cm x 10.2 cm) Shipping dimensions (w x h x d) Mounting Mounted on a vertical surface (wall) or installed on MP or MMP enclosure Weight 13.6 lb (6.2 kg) Shipping weight	Nominal battery voltage range	12, 24, or 48 VDC
Maximum output power 6600 watts Efficiency 99% typical Tare loss / nighttime power consumption <4 watts (fan off, display/LEDs off) Charger regulation method Automatic three-stage (bulk, absorption, float) charge with manual equalization ENERAL FEATURES AND CAPABILITIES Battery temperature compensation With Battery Temperature Sensor (BTS) connected (battery temperature -20 °C to +55 °C) Internal cooling Using dual ball-bearing fans for long life Overcurrent protection With two overlapping circuits Over-temperature protection On transformer and MOSFETS Listings ETL Listed to UI/CUL 1741, CSA C22.2 #107.1-01, CE Warranty Five years parts and labor NVIRONMENTAL SPECIFICATIONS Operating temperature -20 °C to +60 °C (-40 °F to 150 °F) Nonoperating temperature -40 °C to +70 °C (-40 °F to 158 °F) Operating humidity 0 to 95% RH non condensing HYSICAL SPECIFICATIONS Enclosure type Indoor, ventilated, with removable powder-coated conduit box Unit dimensions (w x h x d) 8.5 "x 15.5" x 4.0" (21.6 cm x 39.4 cm x 10.2 cm) Shipping dimensions (w x h x d) 11.5" x 19.5" x 8.125" (29.2 cm x 49.5 cm x 20.6 cm) Mounting Mounted on a vertical surface (wall) or installed on MP or MMP enclosure Weight 13.6 lb (6.2 kg) Shipping weight	Battery charger output voltage range	10 to 66 VDC
Efficiency 99% typical Tare loss / nighttime power consumption <4 watts (fan off, display/LEDs off) Charger regulation method Automatic three-stage (bulk, absorption, float) charge with manual equalization ENERAL FEATURES AND CAPABILITIES Battery temperature compensation With Battery Temperature Sensor (BTS) connected (battery temperature -20 °C to +55 °C) Internal cooling Using dual ball-bearing fans for long life Overcurrent protection With two overlapping circuits Over-temperature protection On transformer and MOSFETS Listings ETL Listed to UL/cUL 1741, CSA C22.2 #107.1-01, CE Five years parts and labor NVIRONMENTAL SPECIFICATIONS Operating temperature -20 °C to +60 °C (-4° F to 140° F) Nonoperating temperature -40 °C to +70 °C (-40° F to 158° F) Operating humidity 0 to 95% RH non condensing HYSICAL SPECIFICATIONS Enclosure type Indoor, ventilated, with removable powder-coated conduit box Unit dimensions (w x h x d) 8.5" x 15.5" x 4.0" (21.6 cm x 39.4 cm x 10.2 cm) Mounting Mounted on a vertical surface (wall) or installed on MP or MMP enclosure Weight 13.6 lb (6.2 kg) Shipping weight 18 lb (8.2 kg)	Continuous charger output current	100 ADC (from -20 °C to +40 °C) with proportional power reduction up to 60 °C ambient
Tare loss / nighttime power consumption Charger regulation method Automatic three-stage (bulk, absorption, float) charge with manual equalization ENERAL FEATURES AND CAPABILITIES Battery temperature compensation With Battery Temperature Sensor (BTS) connected (battery temperature -20 °C to +55 °C) Internal cooling Using dual ball-bearing fans for long life Overcurrent protection With two overlapping circuits Over-temperature protection On transformer and MOSFETS Listings ETL Listed to UL/cUL 1741, CSA C22.2 #107.1-01, CE Warranty Five years parts and labor NVIRONMENTAL SPECIFICATIONS Operating temperature -20° C to +60° C (-4° F to 140° F) Nonoperating temperature -40° C to +70° C (-40° F to 158° F) Operating humidity 0 to 95% RH non condensing HYSICAL SPECIFICATIONS Enclosure type Indoor, ventilated, with removable powder-coated conduit box Unit dimensions (w x h x d) S.5" x 15.5" x 4.0" (21.6 cm x 39.4 cm x 10.2 cm) Shipping dimensions (w x h x d) Mounting Mounted on a vertical surface (wall) or installed on MP or MMP enclosure Weight 13.6 lb (6.2 kg) Shipping weight 18 lb (8.2 kg)	Maximum output power	6600 watts
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Overcurrent protection With two overlapping circuits Over-temperature protection On transformer and MOSFETS Listings ETL Listed to UL/cUL 1741, CSA C22.2 #107.1-01, CE Warranty Five years parts and labor NVIRONMENTAL SPECIFICATIONS Operating temperature -20° C to +60° C (-4° F to 140° F) Nonoperating temperature -40° C to +70° C (-40° F to 158° F) Operating humidity 0 to 95% RH non condensing HYSICAL SPECIFICATIONS Enclosure type Indoor, ventilated, with removable powder-coated conduit box Unit dimensions (w x h x d) 8.5" x 15.5" x 4.0" (21.6 cm x 39.4 cm x 10.2 cm) Shipping dimensions (w x h x d) Mounted on a vertical surface (wall) or installed on MP or MMP enclosure Weight 13.6 lb (6.2 kg) Shipping weight 18 lb (8.2 kg)	Battery temperature compensation	With Battery Temperature Sensor (BTS) connected (battery temperature -20 °C to +55 °C)
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Warranty NVIRONMENTAL SPECIFICATIONS Operating temperature -20° C to +60° C (-4° F to 140° F) Nonoperating temperature -40° C to +70° C (-40° F to 158° F) Operating humidity 0 to 95% RH non condensing HYSICAL SPECIFICATIONS Enclosure type Indoor, ventilated, with removable powder-coated conduit box Unit dimensions (w x h x d) Shipping dimensions (w x h x d) 11.5" x 19.5" x 8.125" (29.2 cm x 49.5 cm x 20.6 cm) Mounting Mounted on a vertical surface (wall) or installed on MP or MMP enclosure Weight 13.6 lb (6.2 kg) Shipping weight	Over-temperature protection	On transformer and MOSFETS
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Operating humidity Oto 95% RH non condensing HYSICAL SPECIFICATIONS Enclosure type Indoor, ventilated, with removable powder-coated conduit box Unit dimensions (w x h x d) Shipping dimensions (w x h x d) 11.5" x 19.5" x 8.125" (29.2 cm x 49.5 cm x 20.6 cm) Mounting Mounted on a vertical surface (wall) or installed on MP or MMP enclosure Weight 13.6 lb (6.2 kg) Shipping weight 18 lb (8.2 kg)	Operating temperature	-20° C to +60° C (-4° F to 140° F)
HYSICAL SPECIFICATIONS Enclosure type Indoor, ventilated, with removable powder-coated conduit box Unit dimensions (w x h x d) 8.5" x 15.5" x 4.0" (21.6 cm x 39.4 cm x 10.2 cm) Shipping dimensions (w x h x d) 11.5" x 19.5" x 8.125" (29.2 cm x 49.5 cm x 20.6 cm) Mounting Mounted on a vertical surface (wall) or installed on MP or MMP enclosure Weight 13.6 lb (6.2 kg) Shipping weight 18 lb (8.2 kg)	Nonoperating temperature	-40° C to +70° C (-40° F to 158° F)
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MountingMounted on a vertical surface (wall) or installed on MP or MMP enclosureWeight13.6 lb (6.2 kg)Shipping weight18 lb (8.2 kg)	Unit dimensions (w x h x d)	8.5" x 15.5" x 4.0" (21.6 cm x 39.4 cm x 10.2 cm)
Weight 13.6 lb (6.2 kg) Shipping weight 18 lb (8.2 kg)	Shipping dimensions (w x h x d)	11.5" x 19.5" x 8.125" (29.2 cm x 49.5 cm x 20.6 cm)
Shipping weight 18 lb (8.2 kg)	Mounting	Mounted on a vertical surface (wall) or installed on MP or MMP enclosure
	Weight	13.6 lb (6.2 kg)
Max operating altitude 15,000' (4570 m)	Shipping weight	18 lb (8.2 kg)
	Max operating altitude	15,000′ (4570 m)



MAGNUM-DIMENSIONS

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Testing for specifications at 25° C. Specifications subject to change without notice.