

Sinergex

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LOW
VOLTAGE



A New Generation of Power

PureWatts – Professional Grade Modified Sine Wave Power Inverters

The Sinergex PureWatts Elite series of inverters are professional grade DC/AC power inverters that deliver efficient & powerful regulated modified sine wave power. By regulating the AC output, the PWE inverters decrease the level of interference produced by modified sine wave making the PWE series perfect for operating equipment like mobile office products, televisions, VCR's, small power tools, laptop computers & many other AC products. The PWE series is packed with many other features like protection against overload, low battery voltage, short circuit, & overheating all with auto-recovery for simple operation.

The PureWatts Elite inverters are some of the highest quality modified sine wave inverters available. The PWE Series includes models of 150 – 2000 watts all which have high surge capabilities to start the toughest equipment.



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PART No.	CONT. POWER	SURGE POWER	INPUT VOLTAGE	OUTPUT VOLTAGE	DIMENSIONS
LV1800	300 Watts	600 Watts	10.0-15.0V DC	240V AC	165 x 95 x 62mm
LV1801	300 Watts	1200 Watts	20.0-30.0V DC	240V AC	165 x 95 x 62mm
LV1802	500 Watts	1000 Watts	10.0-15.0V DC	240V AC	212 x 105 x 63mm
LV1803	500 Watts	1000 Watts	20.0-30.0V DC	240V AC	212 x 105 x 63mm
LV1804	1000 Watts	2000 Watts	10.0-15.0V DC	240V AC	325 x 180 x 89mm
LV1805	1000 Watts	2000 Watts	20.0-30.0V DC	240V AC	325 x 180 x 89mm
LV1806	2000 Watts	4000 Watts	10.0-15.0V DC	240V AC	418 x 180 x 89mm
LV1807	2000 Watts	4000 Watts	20.0-30.0V DC	240V AC	418 x 180 x 89mm

PureSine – Professional Grade True Sine Wave Power Inverters

The Sinergex PureSine series of inverters are some of the most affordable professional grade inverters available today. Using the latest technology in power conversion, the Sinergex PureSine inverters deliver clean & efficient true sine wave AC power from your 12 or 24 volt DC source. The true sine wave power delivered is just like the power you have at home or work & can run the most sensitive to the toughest equipment. The PureSine inverters are microprocessor controlled, have fully isolated voltage input & output, advanced performance features like automatic protection against overload, overheating, low battery, & short circuit. The PureSine series of inverters deliver clean & efficient true sine wave power perfect for running the most sensitive & toughest loads.

By using the latest microprocessor technology, the Sinergex PureSine inverters give you worry-free operation. All PureSine inverters are manufactured to operate in the toughest environments. Each inverter has internal conformal coating for protection in marine environments. The PureSine power saving mode ensures efficiency. By shutting down the inverter when no load is powered, PureSine inverters conserve DC power.



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PART No.	CONT. POWER	SURGE POWER	INPUT VOLTAGE	OUTPUT VOLTAGE	DIMENSIONS
LV1810	300 Watts	600 Watts	10.5 - 15.0V DC	240V AC	237 x 155 x 72mm
LV1811	300 Watts	600 Watts	21.0 - 30.0V DC	240V AC	237 x 155 x 72mm

PureSine Series II – Professional True Sine Wave Inverters

The Sinergex PureSine Series II inverters are the latest addition to Sinergex's professional power range. We have taken the reliability & precision of the original Sinergex PureSine series & added further features plus increased performance & efficiency. Using the latest technology in power conversion, the new PureSine Series II inverters have increased surge capabilities for starting tough loads & increased efficiency with the Powersaver mode for optimum performance. Our new technology has resulted in smaller & lighter range of inverters incorporating new aluminum cases that can be easily installed almost anywhere.

The PureSineSeries II inverters produce precise true sine wave power for distortion free operation. Delivering clean true sine wave power, the Sinergex PureSine II power inverters are perfect for running the sensitive loads such as computers & tough enough to run the toughest loads like power tools. All PureSine II power inverters include a remote control switch (Models 700 – 3000 watts).



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PART NO.	CONT. POWER	SURGE POWER	INPUT VOLTAGE	OUTPUT VOLTAGE	DIMENSIONS
LV1812	700 Watts	1400 Watts	10.5 - 15.0V DC	240V AC	295 x 180 x 72mm
LV1813	700 Watts	1400 Watts	21.0 - 30.0V DC	240V AC	295 x 180 x 72mm
LV1814	1000 Watts	2000 Watts	10.5 - 15.0V DC	240V AC	383 x 182 x 88mm
LV1815	1000 Watts	2000 Watts	21.0 - 30.0V DC	240V AC	383 x 182 x 88mm
LV1816	1500 Watts	3000 Watts	10.5 - 15.0V DC	240V AC	415 x 191 x 88mm
LV1817	1500 Watts	3000 Watts	21.0 - 30.0V DC	240V AC	415 x 191 x 88mm
LV1818	2000 Watts	4000 Watts	10.5 - 15.0V DC	240V AC	422 x 208 x 160mm
LV1819	2000 Watts	4000 Watts	21.0 - 30.0V DC	240V AC	422 x 208 x 160mm
LV1820	3000 Watts	6000 Watts	10.5 - 15.0V DC	240V AC	452 x 208 x 166mm
LV1821	3000 Watts	6000 Watts	21.0 - 30.0V DC	240V AC	452 x 208 x 166mm

Sinergex Nitro Automatic Battery Chargers

Sinergex Nitro™ series are advanced digital automatic battery chargers. Compact in size, Nitro chargers can literally fit in the palm of your hand. Constructed from ultra tough ABS plastic, the Nitro is IP65 water proof & suitable for almost any environment.

Using microprocessors, the Nitro will assess the condition of your battery & then provide the optimum in 4 stages. The Nitro has the ability to recover severely discharged batteries with Soft Start Technology. During this charging stage the Nitro will deliver a soft charge or reduced current charge until the battery's voltage reaches 12 volts. The charging stages Bulk, Absorption & Float will then follow.

The Nitro's Touch Button front panel allows you to control the charger at the touch of a finger. Simply select the type of battery being charged & its voltage & the Nitro will do the rest. The user panel also features easy to read LED status indicators so you know when your battery is charged.

The Nitro includes Smart DC Battery Connectors for simple use & increased safety & performance. Built in voltage & temperature sensors measures the temperature & voltage at the battery terminals & automatically adjust the voltage for an optimum charge. The Smart Connectors also incorporate a warning buzzer & LED to warn of incorrect connection. The Smart connectors are also protected by Anti-Spark technology for safe operation.

LV1830

- Suitable for Charging Lead Acid, AGM & Maintenance Free Batteries
- Charge 6 & 12 Volt Batteries
- 4 Stage Charging – Soft Start, Bulk, Absorption & Float (Maintenance)
- Quick Connect DC Clamps & O-Ring Connectors
- IP65 Waterproof Construction
- Anti-Spark Technology
- Reverse Polarity Protection
- Temperature Compensation
- Ultra Compact Design
- Simple Touch Button Control



SPECIFICATIONS:

Input Voltage:	220 - 240V AC
Input Frequency:	50 Hz.
Nominal Output Voltage:	7.2V DC or 14.4V DC (14.2V DC GEL)
Output Current:	3.5 AMPS DC Max
Charge Algorithm:	Soft Start. Bulk, Absorption, Float
Efficiency:	75%
Operating Temperature:	-20°C to + 45°C Auto Compensation
Available Battery Types:	STD Lead Acid/GEL
Short Circuit Protection:	Yes
Reverse Polarity Protection:	Yes
Battery Over Voltage Protection:	Yes
Charger Over Heat Protection:	Yes
IP Rating:	IP65
Dimensions:	160 x 60 x 40 mm
Weight:	0.55 KGS / 1.25 LBS

Sinergex Nitro Automatic Battery Chargers

LV1831

- Suitable for Charging Lead Acid, AGM & Maintenance Free Batteries
- Charge 6 & 12 Volt Batteries
- 4 Stage Charging – Soft Start, Bulk, Absorption & Float (Maintenance)
- Quick Connect DC Clamps & O-Ring Connectors
- IP65 Waterproof Construction
- Anti-Spark Technology
- Reverse Polarity Protection
- Temperature Compensation
- Ultra Compact Design
- Simple Touch Button Control



SPECIFICATIONS:

Input Voltage:	220 - 240V AC
Input Frequency:	50 Hz.
Nominal Output Voltage:	14.4V DC (MAC. 15.4 VDC for Deep Cycle)
Output Current:	6.0 AMPS DC Max
Charge Algorithm:	Soft Start, Bulk, Absorption, Float (Extend mode)
Efficiency:	75%
Operating Temperature:	-20°C to + 45°C Auto Compensation
Auitable Battery Types:	STD Lead Acid/Deep Cycle
Short Circuit Protection:	Yes
Reverse Polarity Protection:	Yes
Battery Over Voltage Protection:	Yes
Charger Over Heat Protection:	Yes
IP Rating:	IP20
Dimensions:	210 x 90 x 50 mm
Weight:	0.75 KGS / 1.71 LBS

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Sinergex PureCharge Intelligent Battery Chargers

The PureCharge Battery Chargers are series of professional intelligent & fully automatic 3-stage battery chargers designed to increase the performance & life of your batteries. Using microprocessors the PureCharge will access your battery's condition & provide the optimum charge. With 2 – 3 isolated outputs (Depends on Model), the PureCharge can charge multiple batteries at the same time. The PureCharge can be used to charge almost any battery type, including Lead Acid, AGM, Sealed, MF & GEL batteries. The PureCharge has extensive built in protection features including Electronic Reverse Polarity Protection.

The unique design of the PureCharge allows you to customize the charge for your needs. By using the simple DIP switches, you can select the charging voltages & curve to suit your battery type. The PureCharge has seven preset selectable charging curves suitable for Lead Acid, AGM, Sealed, MF & GEL batteries.

Temperature has a major effect on batteries & charging. To overcome problems caused by temperature, the PureCharge includes a temperature sensor to measure ambient temperature & compensate to deliver an optimum efficient charge. The PureCharge incorporates a quick glance LED panel so you can easily see the level of charge.

LV1840

- Microprocessor Controlled
- 7 Selectable Charge Curves
- 2 Isolated DC Outputs
- Simple Status LED Display
- Automatic Temperature Compensation (Included)
- Automatic Intelligent Cooling
- Light Weight & Compact Design
- Electronic Reverse Polarity Protection
- 4-Stage Charging: Soft Start, Bulk, Absorption, Float



SPECIFICATIONS:

Input Voltage:	80 - 150V AC / 150 - 265V AC
Input Frequency:	50 / 60 Hz.
Normal Output Voltage:	12V DC
Maximum Charge Current:	12 AMPS
Charge Algorithm:	IUoUo, Automatic 3 Stage
Charge Voltage - Absorption Charge Voltage - Float Stage	7 Selectable Settings
Efficiency:	82%
Operating Temperature:	-10°C - 40°C / -20°C - 60°C
Battery Capacity:	50 - 200 AH
IP Rating:	IP20
Dimensions:	270 x 185 x 70mm
Weight:	3 KGS / 6.6 LBS



Sinergex PureCharge Intelligent Battery Chargers

LV1841

- Microprocessor Controlled
- 7 Selectable Charge Curves
- 2 Isolated DC Outputs
- Simple Status LED Display
- Automatic Temperature Compensation (Included)
- Automatic Intelligent Cooling
- Light Weight & Compact Design
- Electronic Reverse Polarity Protection
- 4-Stage Charging: Soft Start, Bulk, Absorption, Float



SPECIFICATIONS:

Input Voltage:	80 - 150V AC / 150 - 265V AC
Input Frequency:	50 / 60 Hz.
Normal Output Voltage:	12V DC
Maximum Charge Current:	25 AMPS
Charge Algorithm:	IUoUo, Automatic 3 Stage
Charge Voltage - Absorption Charge Voltage - Float Stage	7 Selectable Settings
Efficiency:	82%
Operating Temperature:	-10°C - 40°C / -20°C - 60°C
Battery Capacity:	100 - 300 AH
IP Rating:	IP20
Dimensions:	270 x 185 x 70mm
Weight:	3.5 KGS / 7.7 LBS

Sinergex™

LV1842

- Microprocessor Controlled
- 7 Selectable Charge Curves
- 2 Isolated DC Outputs
- Simple Status LED Display
- Automatic Temperature Compensation (Included)
- Automatic Intelligent Cooling
- Light Weight & Compact Design
- Electronic Reverse Polarity Protection
- 4-Stage Charging: Soft Start, Bulk, Absorption, Float



SPECIFICATIONS:

Input Voltage:	80 - 150V AC / 150 - 265V AC
Input Frequency:	50 / 60 Hz.
Normal Output Voltage:	12V DC
Maximum Charge Current:	40 AMPS
Charge Algorithm:	IUoUo, Automatic 3 Stage
Charge Voltage - Absorption Charge Voltage - Float Stage	7 Selectable Settings
Efficiency:	82%
Operating Temperature:	-10°C - 40°C / -20°C - 60°C
Battery Capacity:	100 - 400 AH
IP Rating:	IP20
Dimensions:	330 x 185 x 70mm
Weight:	4 KGS / 8.8 LBS

Sinergex™

Sinergex PureCharge Intelligent Battery Chargers

LV1846

- Microprocessor Controlled
- 7 Selectable Charge Curves
- 2 Isolated DC Outputs
- Simple Status LED Display
- Automatic Temperature Compensation (Included)
- Automatic Intelligent Cooling
- Light Weight & Compact Design
- Electronic Reverse Polarity Protection
- 4-Stage Charging: Soft Start, Bulk, Absorption, Float



SPECIFICATIONS:

Input Voltage:	80 - 150V AC / 150 - 265V AC
Input Frequency:	50 / 60 Hz.
Normal Output Voltage:	24V DC
Maximum Charge Current:	12 AMPS
Charge Algorithm:	IUoUo, Automatic 3 Stage
Charge Voltage - Absorption Charge Voltage - Float Stage	7 Selectable Settings
Efficiency:	82%
Operating Temperature:	-10°C - 40°C / -20°C - 60°C
Battery Capacity:	50 - 200 AH
IP Rating:	IP20
Dimensions:	270 x 185 x 70mm
Weight:	3.5 KGS / 7.7 LBS

Sinergex

LV1847

- Microprocessor Controlled
- 7 Selectable Charge Curves
- 2 Isolated DC Outputs
- Simple Status LED Display
- Automatic Temperature Compensation (Included)
- Automatic Intelligent Cooling
- Light Weight & Compact Design
- Electronic Reverse Polarity Protection
- 4-Stage Charging: Soft Start, Bulk, Absorption, Float



SPECIFICATIONS:

Input Voltage:	80 - 150V AC / 150 - 265V AC
Input Frequency:	50 / 60 Hz.
Normal Output Voltage:	24V DC
Maximum Charge Current:	20 AMPS
Charge Algorithm:	IUoUo, Automatic 3 Stage
Charge Voltage - Absorption Charge Voltage - Float Stage	7 Selectable Settings
Efficiency:	82%
Operating Temperature:	-10°C - 40°C / -20°C - 60°C
Battery Capacity:	50 - 200 AH
IP Rating:	IP20
Dimensions:	330 x 185 x 70mm
Weight:	4 KGS / 8.8 LBS

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