

## Overview

The Daytech line of high-quality Pure Sine Wave Inverters are a range of highly efficient (90~ 96%) and rugged self-contained inverter, intended for use in the home, marine, Caravan/RV, rural, shed power and general 12VDC solar installations. The pure sinewave output ensures any device (excluding prescribed medical equipment) can run without increased risk of damage when compared to modified sine wave inverters. The range includes 600-W, 1000-W, 1500-W, 2000-W, and 3000-Watt models.

Designed in Germany and manufactured by Daytech's contract partners in China, with QC and testing completed in Australia, you can be assured of the highest quality. Featuring an attractive design, with AUS or EU or US socket outlets available directly on the unit, for fast and easy installation.



Overload protection



Overtemperature Protection



Low voltage protection



High pressure protection



Short circuit protection

## Features

- 12V input Supply from solar panels, in parallel with the MPPT charge controller and 12VDC Batteries for complete off-grid solutions
- Pure Sine wave output ( < 3% THD)
- Output is isolated from input for safety
- Efficiency from 90 ~ 96% depending on load
- Capable of supplying inrush current to reactive loads such as motors and power tools
- Surge power up to two times greater than maximum running power
- Cooling fan controlled by load and ambient temperature.
- Easy to use and friendly user interface with automatic features
- Protected against short circuit, input over or under voltage, over temperature, reverse polarity protection by fuse, which will blow if the battery is connected in reverse
- USB charging port at 2.1A, 5V – standard on all versions
- Remote control options – including wired and wireless
- Battery fault, Earth fault and load fault protection, Softstart protection of 3-5 seconds
- LCD display for system status, voltage and power, battery and load monitoring
- 2 year Australian warranty – lifetime technical support backed by engineers



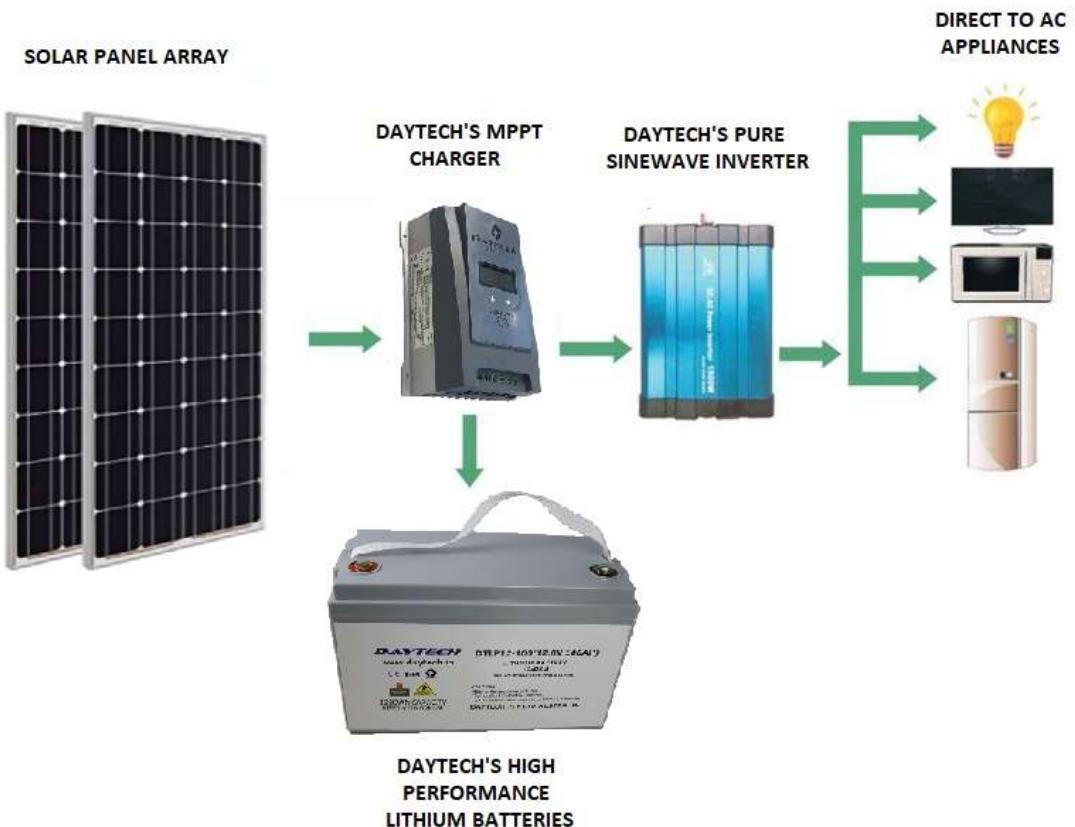
### Installation and Application Example

Power ON/OFF switch, USB charging socket, remote control connection socket, Green LED for power on and Red LED for fault indication, with LCD display standard (not shown here).

Socket Outlets selected for the destination country (example below of Australian General Purpose Outlet – 3 pin sockets for AC connection):



### Application Diagram



**Daytech Energy**

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## Remote Control Options

Options for different remote control types:

*Wireless Remote controller*



*Remote controller with LCD*



*Remote controller with cable*



### Features:

- There are three remote controllers can be optional:
  - A.remote controller with LCD display
  - B.Remote controller with cable
  - C.Wireless Remote controller
- 5m cable
- LCD display:voltage, power, 5 protection status
- wireless area range 10-20m

## Applications

- Off-grid solar and battery power
- RV, caravan and camping
- Home, shed and building power
- Portable equipment power
- Personal power stations
- Trades and industrial stand-alone power systems
- Vehicle and automotive DC-AC power
- Yacht, boat and marine power
- Rural, farming, pumping and outback power

**Specifications – 600W**

Input		Environment	
DC Voltage (Nominal)	12V DC	Working Temp.	0 ~ +50°C
Voltage Range	10.5 ~ 15V DC	Working Humidity	20 ~ 90%RH non-condensing
Idle current draw	≤0.6A	Storage conditions	-30 ~ +70°C 10 ~ 95%RH
Typical Efficiency	90 ~ 96%	Over temperature	Shut off output voltage, recover when fault rectified.
Fuse	50A x 2	Over current	Shut off output voltage, restart to recover
Output		Protection	
AC Voltage	240V AC	Battery low alarm	10.5V ±0.5V DC
Rated power	600W	Battery low shutdown	10V ±0.5V DC
Surge Power	1200W (20m - resistive)	Over voltage	15.5V ±0.5V DC
Waveform	Pure Sine Wave (< 3% THD)	Over temperature &/Or Over Current	Shut off output voltage, recover when fault rectified.
Frequency	50Hz ±0.05%	Soft Start	Soft start 3-5s.
AC Regulation	±10%	Earth Fault	Earth fault - Shut off output voltage
Power factor range	COSθ-90°~COSθ+90°	Hardware	
Safety Standards & EMC		Dimensions (LxWxH)	281.5 x 173.6 x 103.1mm
Compliance	Certified EN 60950-1; 2006+A11: 2009+A1: 2010+A12: 2011+A2: 2013.	Packing	2.1kg; 6pcs/13.2kg/0.06m <sup>3</sup>
Insulation resistance	100M Ohms at 500VDC	Cooling	Fan controlled by load or thermal conditions
EMI conduction and radiation	Certified EN 62040-2:2006,EN61000-3-2; EN61000-3-3;		
EMS Immunity	Certified IEC61000-4-3, IEC61000-4-6		
E-MARK	Certified ECE RIO.05:2014		

**Specifications – 1000W**

Input		Environment	
DC Voltage (Nominal)	12V DC	Working Temp.	0 ~ +50°C
Voltage Range	10.5 ~ 15V DC	Working Humidity	20 ~ 90%RH non-condensing
Idle current draw	≤0.8A	Storage conditions	-30 ~ +70°C 10 ~ 95%RH
Typical Efficiency	94 ~ 97%	Over temperature	Shut off output voltage, recover when fault rectified.
Fuse	40A x 4	Over current	Shut off output voltage, restart to recover
Output		Protection	
AC Voltage	240V AC	Battery low alarm	10.5V ±0.5V DC
Rated power	1000W	Battery low shutdown	10V ±0.5V DC
Surge Power	2000W (20m - resistive)	Over voltage	15.5V ±0.5V DC
Waveform	Pure Sine Wave (< 3% THD)	Over temperature &/Or Over Current	Shut off output voltage, recover when fault rectified.
Frequency	50Hz ±0.05%	Soft Start	Soft start 3-5s.
AC Regulation	±10%	Earth Fault	Earth fault - Shut off output voltage
Power factor range	COSθ-90°~COSθ+90°	Hardware	
Safety Standards & EMC		Dimensions (LxWxH)	313.5 x 173.6 x 103.1mm
Compliance	Certified EN 60950-1; 2006+A11: 2009+A1: 2010+A12: 2011+A2: 2013.	Packing	2.9kg; 4pcs/12.8kg/0.05m <sup>3</sup>
Insulation resistance	100M Ohms at 500VDC	Cooling	Fan controlled by load or thermal conditions
EMI conduction and radiation	Certified EN 62040-2:2006,EN61000-3-2; EN61000-3-3;		
EMS Immunity	Certified IEC61000-4-3, IEC61000-4-6		
E-MARK	Certified ECE RIO.05:2014		

**Specifications – 1500W**

Input		Environment	
DC Voltage (Nominal)	12V DC	Working Temp.	0 ~ +50°C
Voltage Range	10.5 ~ 15V DC	Working Humidity	20 ~ 90%RH non-condensing
Idle current draw	≤1.1A	Storage conditions	-30 ~ +70°C 10 ~ 95%RH
Typical Efficiency	90 ~ 96%	Over temperature	Shut off output voltage, recover when fault rectified.
Fuse	40A x 6	Over current	Shut off output voltage, restart to recover
Output		Protection	
AC Voltage	240V AC	Battery low alarm	10.5V ±0.5V DC
Rated power	1500W	Battery low shutdown	10V ±0.5V DC
Surge Power	3000W (20m - resistive)	Over voltage	15.5V ±0.5V DC
Waveform	Pure Sine Wave (< 3% THD)	Over temperature &/Or Over Current	Shut off output voltage, recover when fault rectified.
Frequency	50Hz ±0.05%	Soft Start	Soft start 3-5s.
AC Regulation	±10%	Earth Fault	Earth fault - Shut off output voltage
Power factor range	COSθ-90°~COSθ+90°	Hardware	
Safety Standards & EMC		Dimensions (LxWxH)	325.2 x 281.3 x 112.7mm
Compliance	Certified EN 60950-1; 2006+A11: 2009+A1: 2010+A12: 2011+A2: 2013.	Packing	5.2kg; 2pcs/11.1kg/0.06m <sup>3</sup>
Insulation resistance	100M Ohms at 500VDC	Cooling	Fan controlled by load or thermal conditions
EMI conduction and radiation	Certified EN 62040-2:2006,EN61000-3-2; EN61000-3-3;		
EMS Immunity	Certified IEC61000-4-3, IEC61000-4-6		
E-MARK	Certified ECE RIO.05:2014		

**Specifications – 2000W**

Input		Environment	
DC Voltage (Nominal)	12V DC	Working Temp.	0 ~ +50°C
Voltage Range	10.5 ~ 15V DC	Working Humidity	20 ~ 90%RH non-condensing
Idle current draw	≤1.1A	Storage conditions	-30 ~ +70°C 10 ~ 95%RH
Typical Efficiency	90 ~ 96%	Over temperature	Shut off output voltage, recover when fault rectified.
Fuse	40A x 8	Over current	Shut off output voltage, restart to recover
Output		Protection	
AC Voltage	240V AC	Battery low alarm	10.5V ±0.5V DC
Rated power	2000W	Battery low shutdown	10V ±0.5V DC
Surge Power	4000W (20m - resistive)	Over voltage	15.5V ±0.5V DC
Waveform	Pure Sine Wave (< 3% THD)	Over temperature &/Or Over Current	Shut off output voltage, recover when fault rectified.
Frequency	50Hz ±0.05%	Soft Start	Soft start 3-5s.
AC Regulation	±10%	Earth Fault	Earth fault - Shut off output voltage
Power factor range	COSθ-90°~COSθ+90°	Hardware	
Safety Standards & EMC		Dimensions (LxWxH)	325.2 x 281.3 x 112.7mm
Compliance	Certified EN 60950-1; 2006+A11: 2009+A1: 2010+A12: 2011+A2: 2013.	Packing	5.2kg; 2pcs/11.1kg/0.06m <sup>3</sup>
Insulation resistance	100M Ohms at 500VDC	Cooling	Fan controlled by load or thermal conditions
EMI conduction and radiation	Certified EN 62040-2:2006,EN61000-3-2; EN61000-3-3;		
EMS Immunity	Certified IEC61000-4-3, IEC61000-4-6		
E-MARK	Certified ECE RIO.05:2014		

**Specifications – 3000W**

Input		Environment	
DC Voltage (Nominal)	12V DC	Working Temp.	0 ~ +50°C
Voltage Range	10.5 ~ 15V DC	Working Humidity	20 ~ 90%RH non-condensing
Idle current draw	≤1.2A	Storage conditions	-30 ~ +70°C 10 ~ 95%RH
Typical Efficiency	90 ~ 96%	Over temperature	Shut off output voltage, recover when fault rectified.
Fuse	40A x 12	Over current	Shut off output voltage, restart to recover
Output		Protection	
AC Voltage	240V AC	Battery low alarm	10.5V ±0.5V DC
Rated power	3000W	Battery low shutdown	10V ±0.5V DC
Surge Power	6000W (20m - resistive)	Over voltage	15.5V ±0.5V DC
Waveform	Pure Sine Wave (< 3% THD)	Over temperature &/Or Over Current	Shut off output voltage, recover when fault rectified.
Frequency	50Hz ±0.05%	Soft Start	Soft start 3-5s.
AC Regulation	±10%	Earth Fault	Earth fault - Shut off output voltage
Power factor range	COSθ-90°~COSθ+90°	Hardware	
Safety Standards & EMC		Dimensions (LxWxH)	442.2 x 261.3 x 112.7mm
Compliance	Certified EN 60950-1; 2006+A11: 2009+A1: 2010+A12: 2011+A2: 2013.	Packing	8kg; 2pcs/17kg/0.08m <sup>3</sup>
Insulation resistance	100M Ohms at 500VDC	Cooling	Fan controlled by load or thermal conditions
EMI conduction and radiation	Certified EN 62040-2:2006,EN61000-3-2; EN61000-3-3;		
EMS Immunity	Certified IEC61000-4-3, IEC61000-4-6		
E-MARK	Certified ECE RIO.05:2014		