



Description

The 7046 and 7047 are primarily variable AC power supply modules with the capability to provide DC power also. Both modules are highly versatile and incorporate various functions and features for increased usability.

Output characteristics - AC mode: The output voltage can be set in two ranges, from 0 to 155 V or 0 to 310 V. You can switch ranges manually or automatically. The peak current can triple the maximum rated current for the rectifier load of the capacitor input type. The frequency setting is from 40 Hz to 500 Hz.

Output characteristics - DC mode: The output voltage varies from -219 V to +219 V or -438 V to +438 V (two ranges). You can switch ranges manually or automatically. The maximum instantaneous current is up to three times higher than the maximum rated current.

Input characteristics: The input voltage is from 100 V AC to 120 V AC or 200 V AC to 240 V AC at 50 Hz/60 Hz (single phase). The voltage is automatically determined when the power supply is turned on.

Measurement functions: The 7046 and 7047 can measure the voltage, current, and power of AC and DC output. They can display the true RMS and the average (DC) values for the output voltage, and the true RMS, peak and the average (DC) values for the output current.

Protection: The following protection features are available:

- Protection against non-rated input voltage
- Protection against overheat (OHP)
- Protection against overload: Current limit (OCP)/monitoring for exceeded power (OPP)/monitoring for exceeded peak current
- Detection of voltage abnormalities: Increased voltage (OVP)/decreased voltage (LVP)

Output on phase angle: The output on phase angle can be set at AC mode. The output off phase angle is turned off at a zero cross phase.

Memory function: The 7046 and 7047 can store three sets of setting value for output voltage and frequency, and limit value. By manually changing the preset memory during output, the test for sudden changes of voltage and frequency is also possible.

Specifications

Module	Output AC	Output frequency	Output DC	Setting resolution
7046	0 to 155 V, 5 A / 0 to 310 V, 2.5 A	40 to 500 Hz	-219 to +219 V, 4 A / -438 to 438 V, 2 A	0.1 V
7047	0 to 155 V, 10 A / 0 to 310 V, 5 A	40 to 500 Hz	-219 to +219 V, 8 A / -438 to 438 V, 4 A	0.1 V

Module Widths..... 7046: 295 mm / 7047: 500 mm

Due to continuous development Time Electronics reserves the right to change specifications without prior notice.

Features

- 7046: AC 500 VA, DC 400 W
AC output: 0 to 155 V, 5 A / 0 to 310 V, 2.5 A
DC output: -219 to +219 V, 4 A / -438 to 438 V, 2 A
- 7047: AC 1000 VA, DC 800 W
AC output: 0 to 155 V, 10 A / 0 to 310 V, 5 A
DC output: -219 to +219 V, 8 A / -438 to 438 V, 4 A
- Frequency 40 to 500 Hz
- Low distortion synthesised output waveform
- Maximum peak current 3 times the rated RMS
- Sensing function Measurement and memory

Ordering Information

7046 **Variable AC/DC Power Supply.**
AC 500 VA, DC 400 W, Freq 40 - 500 Hz.

7047 **Variable AC/DC Power Supply.**
AC 1000 VA, DC 800 W, Freq 40 - 500 Hz.