

# Power Supplies Data Sheet

## Triple Output Power Supply

### Flexible Power Configurations

**Current: Up to 12 Amps**  
**Voltage: Up to 120 Volts**  
**Power: Up to 375 Watts**



### Tools for Improved Debugging

- Dual Channel Voltage and Current Display.
 ✓ Clearly see your output power settings.
- Switched Mode high efficiency Power Supply Design.
 ✓ Small footprint and lightweight whilst maintaining high power density.
- Channel 1 and Channel 2 support dual switchable output ranges, 30 V / 6 A or 60 V / 3 A.
 ✓ Maximum flexibility per channel whilst maintaining 3 outputs.
- Constant Voltage and Constant Current Operation giving 30 V / 12 A, 60 V / 6 A or 120 V / 3 A.
 ✓ Support for the broadest output configurations giving wider application coverage for a more complete solution.
- Low acoustic fan noise with automatic fan speed control circuit.
 ✓ Minimise the fan "on time" and fan noise in the users work environment (< 50 dB)
- Remote Output On/Off Control (not programmable)
 ✓ Turn the output On or Off from an external device.
- Only 255 mm Wide x 145 mm High x 265 mm Deep. Weight Approx. 6 kg.
 ✓ High power/high performance whilst take up the minimum of bench space.

### Models and Characteristics

T3PS36006	Ch1 / Ch2 Independent	0-30 V / 0-6 A, 0-60 V / 0-3 A	375 W
	Ch1 / Ch2 Series	0-60 V / 0-6 A, 0-120 V / 0-3 A	
	Ch1 / Ch2 Parallel	0-30 V / 0-12 A, 0-60 V / 0-6 A	
	Ch3	0.1-5 V / 3 A	



Rear Panel

## T3PS36006

- Three Independent, Isolated Output
- CH1/CH2: Dual Output Range of 30 V / 6 A or 60 V / 3 A
- CH3 Adjustable Output: 0.1~5 V / 3 A
- High Efficiency Power Conversion
- Remote Output On/Off Control
- OVP to Protect the DUT
- OTP to Protect T3PS36006 for Reducing the Repair Rate
- Automatically Switches AC 115 V / 230 V Source
- Full Safety Design: Reverse Polarity, CH3 Overload Protection, Safe Output Setting, C.C./C.V. Mode
- Compact Size, Light Weight
- Low Fan Acoustic Noise with Fan Speed Control Circuit

**The T3PS36006 DC power supply provides 375 W output capacity, three isolated outputs with dual-range for CH1 & CH2, highly efficient power conversion, low noise, high reliability, thorough protection, excellent value and a compact size.**

T3PS36006 creates a new bench mark for satisfying mainstream power supply demands. CH1 & CH2 offer dual-range output either at 30 V / 6 A or 60 V / 3 A per channel to accommodate a wide range of applications. T3PS36006 supports series and parallel tracking, allowing the CH1 and CH2 to be internally connected in series or parallel providing flexible output (30 V / 12 A, 60 V / 6 A, or 120 V / 3 A). High power density and high

power conversion efficiency lets T3PS36006 consume less energy making for a greener power supply. In addition, the high power density makes T3PS36006 weigh less than half and occupy much less space compared to linear power supplies. To avoid damage caused by improper operation, it also has OVP and OTP. The dual range AC input accepts both 115 V and 230 V inputs. When the instrument is on, devices can be connected and voltage/current levels can be adjusted safely from the front panel by turning off the output using the Output on/off key. The optional voltage/current protection knobs can be used to prevent accidentally changing the output levels. These knobs are useful for automated testing at fixed output levels, such as in assembly lines or product inspections.

## Ordering Information

<b>Model</b>	<b>T3PS36006</b>	Multiple Output Dual Range D.C. Power Supply
<b>Accessories</b>		Quick Start Guide x 1, Power Cord x 3, Test lead GTL-104 A x 2, GTL-105 A x 1

Warranty: 3 Years return to Teledyne LeCroy.

# SPECIFICATIONS

## Output Ratings

CH1/CH2 Independent	0 ~ 30 V / 0 ~ 6 A ; 0 ~ 60 V / 0 ~ 3 A
CH1/CH2 Series	0 ~ 60 V / 0 ~ 6 A ; 0 ~ 120 V / 0 ~ 3 A
CH1/CH2 Parallel	0 ~ 30 V / 0 ~ 12 A ; 0 ~ 60 V / 0 ~ 6 A
CH3	0.1 ~ 5 V / 3 A

## Voltage Regulation

Line	$\leq 0.01\% + 3\text{ mV}$
Load	$\leq 0.01\% + 5\text{ mV}$ (rating current $\leq 6\text{ A}$ ) $\leq 0.01\% + 8\text{ mV}$ (rating current $\leq 12\text{ A}$ )
Ripple & Noise	$\leq 5\text{ mVrms}$ (5 Hz ~ 1 MHz); $\leq 50\text{ mVpp}$ (20 Hz ~ 20 MHz)
Recovery Time	$\leq 100\text{ }\mu\text{s}$ (50 % load change, minimum load 0.5 A)

## Current Regulation

Line	$\leq 0.2\% + 3\text{ mA}$
Load	$\leq 0.2\% + 3\text{ mA}$
Ripple & Noise	$\leq 3\text{ mArms}$

## Tracking Operation

Tracking Error	$\leq 0.5\% + 10\text{ mV}$ of master
Series Regulation	$\leq 300\text{ mV}$
Ripple & Noise	$\leq 10\text{ mVrms}$ (5 Hz ~ 1 MHz); $\leq 100\text{ mVpp}$ (20 Hz ~ 20 MHz)

## Output On/Off Response Time

Voltage Up (10 % ~ 90 %)	$\leq 100\text{ ms}$ ( $\leq 95\%$ rating load)
Voltage Down (90 % ~ 10 %)	$\leq 100\text{ ms}$ ( $\geq 10\%$ rating load)

## OVP

Accuracy	$\pm (0.5\% \text{ of reading} + 0.5\text{ V})$
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## Meter

Type	3½ digit 0.5" LED display
Accuracy	$\pm (0.5\% \text{ of reading} + 2\text{ digits})$
Resolution	100 mV / 10 mA

## Insulation

Chassis & Terminal	100 M $\Omega$ or above (DC 1000 V)
Chassis & AC code	100 M $\Omega$ or above (DC 1000 V)

## Temperature Coefficient

Voltage	$\leq 100\text{ ppm} / ^\circ\text{C} + 3\text{ mV}$
Current	$\leq 150\text{ ppm} / ^\circ\text{C} + 3\text{ mA}$

## Remote Control

	Output On/Off
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## Fan Noise

	$\leq 50\text{ dB}$
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## Operation Environment

	Ambient temperature 0 ~ 40 °C; Relative humidity $\leq 80\%$
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## Storage Environment

	Ambient temperature -10 ~ 70 °C; Relative humidity $\leq 70\%$
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## Power Source

	AC 115 V / 230 V $\pm 15\%$ , 50/60 Hz
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## Dimension & Weight

	255 (W) x 145 (H) x 265 (D) mm; Approx. 6 kg
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Specifications subject to change without notice.

# ABOUT TELEDYNE TEST TOOLS



## Company Profile

Teledyne LeCroy is a leading provider of oscilloscopes, protocol analyzers and related test and measurement solutions that enable companies across a wide range of industries to design and test electronic devices of all types. Since our founding in 1964, we have focused on creating products that improve productivity by helping engineers resolve design issues faster and more effectively. Oscilloscopes are tools used by designers and engineers to measure and analyze complex electronic signals in order to develop high-performance systems and to validate electronic designs in order to improve time to market.

The Teledyne Test Tools brand extends the Teledyne LeCroy product portfolio with a comprehensive range of test equipment solutions. This new range of products delivers a broad range of quality test solutions that enable engineers to rapidly validate product and design and reduce time-to-market. Designers, engineers and educators rely on Teledyne Test Tools solutions to meet their most challenging needs for testing, education and electronics validation.

## Location and Facilities

Headquartered in Chestnut Ridge, New York, Teledyne Test Tools and Teledyne LeCroy has sales, service and development subsidiaries in the US and throughout Europe and Asia. Teledyne Test Tools and Teledyne LeCroy products are employed across a wide variety of industries, including semiconductor, computer, consumer electronics, education, military/aerospace, automotive/industrial, and telecommunications.

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T3 stands for Teledyne Test Tools.

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