T3PS16081P/ T3PS30051P Fact Sheet

Programmable Power Supplies

TELEDYNE TEST TOOLS
Everywhereyoulook™

Debug with Confidence

30 Volts, 8 Amps, 150 Watts

Tools for Improved Debugging

• Single high performance, high precision programmable output.	✓ Ideal for a wider range of bench power supply application coverage.
• Compact, modern, easy to use, reliable, low noise linear design ≤ 350 µVrms.	✓ Ideal for electronic components/ systems, battery, IoT, digital, analog and audio applications.
• High resolution 2.8 inch TFT LCD Display with 240 x 320 pixels.	✓ Large, clear display aids setup and ease of use.
• Two output modes: standard 2-wire or 4-wire using remote sense capability.	✓ Delivers accurate, precision voltage directly to the DUT.
• Provides power up to 128/150 Watts.	✓ Ideal for low to medium power applications.
• Rear panel USB Device and LAN interface connectors.	✓ Support for the maximum control flexibility.
• 3 years warranty as standard.	✓ Reliable product gives piece of mind.

Models and Characteristics

T3PS16081P	0 V – 16 V	0 – 8 A	128 Watts	Programmable
T3PS30051P	0 V – 30 V	0 – 5 A	150 Watts	Programmable

For more information, please contact:

AUTHORIZED TELEDYNE LECROY Everywhereyoulook DISTRIBUTOR

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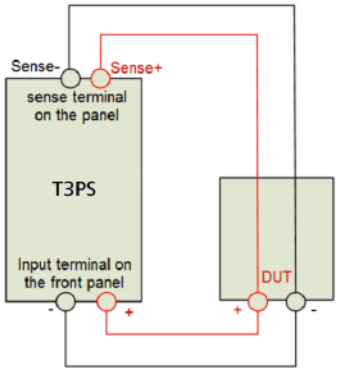
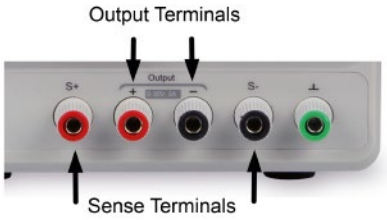
Models and Specifications

Model	T3PS16081P	T3PS30051P
Number of Channels	1	1
Voltage Range	0 – 16 V	0 – 30 V
Current Range	0 – 8 A	0 – 5 A
Maximum Power	128 W	150 W
Constant Voltage		
Load Regulation	≤ 0.01 % + 2 mV	
Ripple & Noise	≤ 350 µVrms / 3 mVpp (20 Hz – 20 MHz)	
Recovery Time (50 % load change, minimum load 0.5 A)	< 50 us	
Constant Current		
Line Regulation	≤ 0.2 % + 3 mA	
Load Regulation	≤ 0.2 % + 3 mA	
Ripple & Noise	≤ 2 mArms	
Other		
Remote Sense Terminals	Yes	
Programmable	Yes via USB and LAN	
Technology	Linear	
Display	2.8 inch color TFT LCD, 240 x 320 pixels	
Dimensions	154.6 mm (W) x 144.5 mm (H) x 280 mm (D)	
Weight	5.5 kg	
Warranty	3 Years	

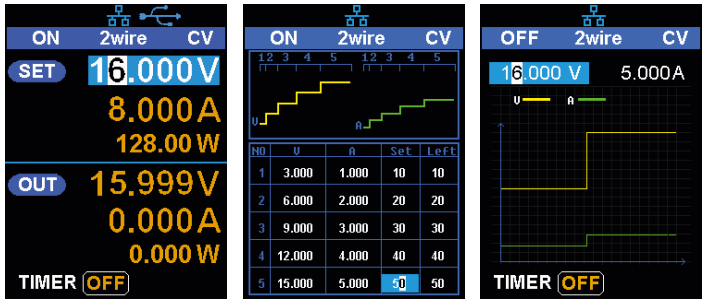
4-Wire Sense Capability



4-Wire Sense compensates for losses in cabling between the DUT and terminals of the T3PS30051P/ T3PS16081P power supply.



Using remote sense is an effective way to improve power delivery accuracy at the DUTs terminals, effectively removing the additional error due to the voltage drop in the connection wiring.



Multiple display formats for ease of use.

Excellent Performance

- 5 digit voltage, 4 digit current display with minimum resolution of 1 mV / 1 mA.
- Low ripple and noise of ≤ 350 µVrms / 3 mVpp, < 2 mArms.
- Fast < 50 µs transient response time.
- Use standard 2-Wire mode, or 4-Wire Sense capability to compensate for wiring losses.

Great Connectivity

- LAN and USB device port (USBTMC) for instrument control.
- LabView driver and SCPI programming support.

Smart Capabilities

- Intelligent temperature controlled fan reduces noise.
- Clear graphical interface with waveform display function.
- Save/recall 5 internal groups of parameters.
- Multiple display formats supporting numerical and graphical modes.