T3PS3000 Fact Sheet

Power Supply

TELEDYNE TEST TOOLS
Everywhereyoulook™

Debug with Confidence

32 V Triple Output DC Power Supply



Tools for Improved Debugging

• 3 Independent isolated outputs – 32 V / 3.2 A x 2, 2.5 V / 3.3 V / 5 V / 3.2 A x 1. Total 220 W.	✓ More application coverage from a single power supply.
• High resolution, high precision output – 5 digit voltage, 4 digit current display. Minimum resolution 1 mV / 1 mA.	✓ Excellent setting and read back accuracy improves precision.
• 3 output modes – series, parallel and independent operation.	✓ Combine two channels into one for greater power output flexibility.
• 4.3 inch (10.92 cm) color TFT-LCD 480 x 272 pixel display.	✓ A clear and flexible display aids ease of use.
• Graphical display interface with numeric, waveform and table display functions.	✓ View waveform shape and timing settings.
• Intelligent temperature controlled cooling fan reduces fan speed during low load usage.	✓ Quieter less intrusive operation.
• 3 Years Warranty as standard.	✓ Peace of mind.

Key Specifications

Number of Outputs	3
DC Voltage	0 V to 32 V x 2, 2.5 V / 3.3 V / 5 V x 1
DC Current	3.2 A x 3
Maximum Output Power	220 W
Series/ Parallel Output	Yes
Connectivity	USB Device, LAN

For more information, please contact:

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Configurable Outputs:

Output channels 1 and 2 can be configured as independent, parallel or series operation. In parallel and series modes channel 1 and 2 are linked internally to give a single output with up to double the independent voltage or current out.



The independent output mode gives three outputs, two from 0 V to 32 V and one switchable between 2.5 V, 3.3 V and 5 V. All at up to 3.2 A each.



The Parallel output mode gives a single channel with a maximum current output of double that of the independent output mode, therefore 0 A to 6.4 A at up to 32 V.



The Series output mode gives a a single channel with a maximum voltage output of double that of the independent voltage output mode, therefore 0 V to 64 V at 3.2 A.

Smart Capabilities as Standard

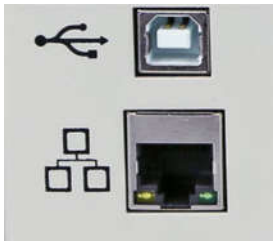
- Three independent outputs.
- Configure main outputs as independent, series or parallel.
- Output 0 V to 64 V at 3.2 A in series mode.
- Output 0 V to 32 V at 6.4 A in parallel mode.
- Third output switchable between 2.5 V / 3.3 V and 5 V at up to 3.2 A.
- High performance Voltage mode specification.
  Line Regulation < 0.01 % + 3 mV Load
  Regulation < 0.01 % + 3 mV
  Ripple and Noise < 1 mV rms (5 Hz – 1 MHz)
- High performance Constant Current specification. Line Regulation < 0.2 % + 3 mA
  Load Regulation < 0.2 % + 3 mA
  Ripple and Noise < 3 mA rms
- More specification details in the T3PS3000 Data Sheet.



The T3PS3000 Display is 4.3 inch (10.92 cm) color TFT-LCD, with 5 Digits Voltage with 1 mV Resolution and 4 Digits Current with 1 mA resolution.



The display can also show output waveforms and data tables.



The T3PS3000 includes built in USB Device and LAN for remote control via SCPI or LabView.



Function	T3PS3000
Independent Output Operation	0 V – 32 V, 3.2 A x 2, 2.5 V / 3.3 V / 5 V, 3.2 A x 1
Parallel Output Operation	0 V – 32 V, 6.4 A x 1, 2.5 V / 3.3 V / 5 V, 3.2 A x 1
Series Output Operation	0 V – 64 V, 3.2 A x 1, 2.5 V / 3.3 V / 5 V, 3.2 A x 1
Maximum Output Power	220 Watts
Display	4.3 inch (10.92 cm) color TFT-LCD 5 Digits Voltage, 1 mV Resolution 4 Digits Current, 1 mA Resolution