# Power Supplies Fact Sheet

## Programmable High-Precision DC Power Supplies

TELEDYNE TEST TOOLS
Everywhereyoulook™

## Measure with Confidence

**Current:**
**Up to 5 Amps**

**Voltage:**
**Up to 100 Volts**

**Power:**
**Up to 108 Watts**


### Tools for Improved Debugging

| | |
|---|---|
| • 0.03 % Voltage setting and measurement accuracy. | ✓ Apply the desired voltage to the load accurately. |
| • Low Ripple Noise ≤ 1.2 mVrms and transient recovery time ≤ 100 µs. | ✓ Improved power supply specifications meets your low noise power needs. |
| • Adjustable Slew Rates for the level transition of both Current and Voltage. | ✓ Adjustable slew rates allows flexible output setting in various testing conditions. |
| • Ch1 and Ch2 support Constant Voltage and Constant Current Operation. | ✓ Flexible voltage and current output configurations for a broader application coverage. |
| • Fully programmable via LAN, USB, RS-232 and RS-485 interface. | ✓ Full remote control extends the usability from the bench to automated systems. |
| • 3 years warranty as standard. | ✓ Reliable product gives peace of mind. |

### Models and Characteristics

| Models | Voltage | Current | Power | Voltage Setting Accuracy | Current Setting Accuracy |
|---|---|---|---|---|---|
| **T3PS20051P** | 20 V | 5 A | 100 W | 0.03 %* | 0.05 %* |
| **T3PS36031P** | 36 V | 3 A | 108 W | | |
| **T3PS100011P** | 100 V | 1 A | 100 W | | |

* Refer the specifications section below for detailed specifications.

**For more information, please contact:**

AUTHORIZED TELEDYNE LECROY Everywhereyoulook DISTRIBUTOR

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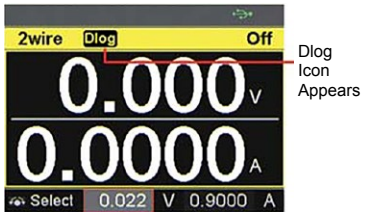
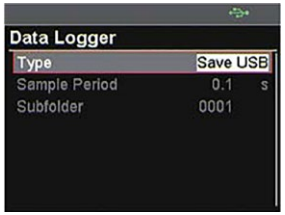
| Model | | T3PS20051P | T3PS36031P | T3PS100011P |
|---|---|---|---|---|
| **DC Output Mode** | | | | |
| Output Voltage | | 20.000 V | 36.000 V | 100.00 V |
| Output Current | | 5.0000 A | 3.0000 A | 1.0000 A |
| Output Power | | 100 W | 108 W | 100 W |
| **Constant Voltage Operation** | | | | |
| Line Regulation | | ± (0.01 % of setting + 1 mV) | ± (0.01 % of setting + 3 mV) | ± (0.01 % of setting + 7 mV) |
| Load Regulation | | ± (0.01 % of setting + 3 mV) | ± (0.01 % of setting + 4 mV) | ± (0.01 % of setting + 7 mV) |
| Transient Response | | < 50 µs | | < 100 µs |
| Ripple Noise(Vrms/ Vpp) | | 0.5 mVrms / < 8 mVpp | 0.8 mVrms / < 10 mVpp | 1.2 mVrms / < 15 mVpp |
| Rise Time | Rated load | ≤ 50 ms | ≤ 50 ms | ≤ 100 ms |
| | No load | ≤ 50 ms | ≤ 50 ms | ≤ 100 ms |
| Fall Time | Rated load | ≤ 20 ms | ≤ 20 ms | ≤ 50 ms |
| | No load | ≤ 150 ms | ≤ 150 ms | ≤ 250 ms |
| Setting Range (105 %) | | 0 V to 21.0 V | 0 V to 37.8 V | 0 V to 105.0 V |
| Setting Resolution | | 1 mV | 1 mV | 2 mV |
| Setting Accuracy (23 °C ± 15 °C) | | ± (0.03 % of setting + 5 mV) | ± (0.03 % of setting + 8 mV) | ± (0.0 3% of setting + 20 mV) |
| Remote Sensing Compensation Voltage (single line) | | 1 V | 1 V | 3 V |
| Temperature Coefficient (Typ.) | | 100 ppm / °C | | |
| **Constant Current Operation** | | | | |
| Line Regulation | | ± (0.02 % of setting + 250 µA) | ± (0.02 % of setting + 150 µA) | ± (0.02 % of setting + 50 µA) |
| Load Regulation | | ± (0.02 % of setting + 250 µA) | ± (0.02 % of setting + 150 µA) | ± (0.02 % of setting + 50 µA) |
| Ripple Noise (Arms) | | 2 mA | 1 mA | 1 mA |
| Setting Range (105 %) | | 0 A to 5.25 A | 0 A to 3.15 A | 0 A to 1.050 A |
| Setting Resolution | | 0.1 mA | | |
| Setting Accuracy (23 °C ± 5 °C) | | ± (0.05 % of setting + 3.0 mA) | ± (0.05 % of setting + 1.5 mA) | ± (0.05 % of setting + 1.0 mA) |
| Temperature Coefficient (Typ.) | | 200 ppm / °C | | |
| **Other** | | | | |
| Interface Capabilities | LAN | MAC Address, DNS IP Address, User Password, Gateway IP Address, Instrument IP Address, Subnet Mask | | |
| | USB | Type A: Host, Type B: Slave, Speed: 1.1/2.0, USB-CDC | | |
| | RS-232/ RS-485 | Complies with the EIA-RS-232/RS-485 specifications (excluding the connector) | | |
| Dimensions (mm) | | 107 (W) × 124 (H) × 313 (D) (not including protrusions) | | |
| Weight | | Approx. 5.5 kg | | |

## A. DATA LOGGER



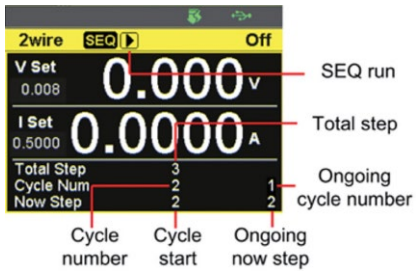

*Data Logger Function*



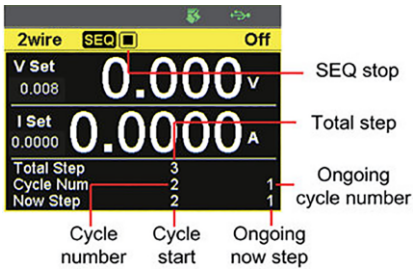

*Save Data Log Into USB Disk*

The T3PS series can record the measured voltage, current and temperature data to a USB flash drive or can be remotely controlled to read the data. Data sampling interval is 0.1 ~ 999.9 seconds.

## B. SEQUENCE TEST




*SEQ Run in Cycle Mode*




*SEQ Stop in Cycle Mode*

The Sequence Test function allows the user to program the T3PS series to execute a sequential power output. The supply will automatically execute the power output sequence to the DUT. The T3PS series can store 10 sets of edited Test Scripts in the internal memory and can also be connected to a USB flash drive to store Test Scripts.