

# Laboratory DC Power Supplies

## Data Sheet

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### Applications

- ◇ Industrial Electronic Design, Laboratory
- ◇ Experimental Education

### TLP A Series Features & Advanced functions

- ◇ High Stability
- ◇ Low Ripple & Noise
- ◇ Voltage Sensing Operation
- ◇ Over Voltage Protection
- ◇ Over Current Protection
- ◇ Over Temperature Protection
- ◇ Remote Control (available in TRP series only)
  - ◆ RS-232C, USB Connector
  - ◆ RS-485 replacement (Optional)
- ◇ Advanced Functions (available in TDP, TRP series)
  - ◆ Over Current Protection (OCP) Setting
  - ◆ Buzzer Off Setting
  - ◆ Short Protection Setting (1m $\Omega$  ~ 9.999 $\Omega$ )
  - ◆ Voltage Slope Mode (0.01 ~ 9999s)
  - ◆ Current Slope Mode (0.01 ~ 9999s)
  - ◆ Hold Mode (1 ~ 9999s)
  - ◆ Slope-Hold Mode
- ◇ Small Size

# TLP S Series DC Power Supplies

## TLP S Series Specifications

### TLP A Series Electrical Characteristics

Model	TLP3003A	TLP3006A	TLP3010A	TLP4005A	TLP6003A	TLP6006A
Channels	1					
Voltage Range [V]	0 ~ 30			0 ~ 40	0 ~ 60	
◆ Accuracy	$\pm(0.01\% + 20\text{mV})$		$\pm(0.01\% + 200\text{mV})$			
◆ Resolution	10mV					
Current Range [A]	0 ~ 3	0 ~ 6	0 ~ 10	0 ~ 5	0 ~ 3	0 ~ 6
◆ Accuracy	$\pm(0.01\% + 2\text{mA})$		$\pm(0.01\% + 20\text{mA})$	$\pm(0.01\% + 2\text{mA})$		
◆ Resolution	1mA		10mA	1mA		
Line Regulation	$\leq 0.05\% \pm 3\text{mV}$					
Load Regulation	$\leq 0.05\% \pm 3\text{mV}$					
Ripple & Noise @ 20MHz	$\leq 1\text{mV}_{\text{RMS}}$	$\leq 1\text{mV}_{\text{RMS}}$	$\leq 1\text{mV}_{\text{RMS}}$	$\leq 1\text{mV}_{\text{RMS}}$	$\leq 1\text{mV}_{\text{RMS}}$	$\leq 1\text{mV}_{\text{RMS}}$
	$\leq 10\text{mV}_{\text{P-P}}$	$\leq 10\text{mV}_{\text{P-P}}$	$\leq 10\text{mV}_{\text{P-P}}$	$\leq 10\text{mV}_{\text{P-P}}$	$\leq 10\text{mV}_{\text{P-P}}$	$\leq 10\text{mV}_{\text{P-P}}$
Efficiency @ full load	60%	60%	60%	60%	60%	60%
Advanced Functions						
◆ OCPL Mode	ON/OFF (Local and Remote)					
◆ Short Protection	Load resistance Limit = 0.001 ~ 9.999 $\Omega$ (Local Only)					
◆ Slope Mode	Local : 1 ~ 9999s / Remote : 0.01 ~ 9999s					
◆ Hold Mode	1 ~ 9999s (Local Only)					
RS-232C/USB Bridge	Standard(RS-485 Replacement optional)					
AC Input	Single, 220V <sub>AC</sub> /60Hz					

### TLP S Series Environmental and Physical Characteristics

Model	All Models on TLP A Series
Operating Temperature	0 ~ +40°C
Storage Temperature	-20 ~ +60°C
Operating Humidity	50°C/60%RH, 30°C/85%RH
Dimensions (W x H x D)	330 x 100 x 320mm
Weight	$\leq 11\text{kg}$
Shipping Package Dimensions	
Shipping Package Weight	