

# Power Supply, Bench

## 35V / 5V, 600VA

**TENMA™**



The 72-7856 incorporates a third output fully variable between 1.5V and 5.0V with a fixed current limit of 5A. The set voltage can be measured at the press of a button using the digital meters.

### Specifications

#### Input

AC Input : 110V to 240V 50/60Hz (universal input)  
Installation Category II

VA Ratings : 500VA

#### Temperature & Environmental

Operating Range : +5°C to +40°C, 20% to 80% RH  
Storage Range : -40°C to + 70°C  
Environmental : Indoor use at altitudes up to 2000m, Pollution Degree 2  
Cooling : Fan-less convection cooling

### Output Specifications

#### Output Setting & Control

Voltage Setting : By coarse and fine controls  
Current Setting : By single logarithmic control  
Output Mode : Constant voltage or constant current with automatic cross-over  
CC indicator lit in constant current mode  
Output Switch : Electronic, non isolating. Preset voltage and current limit displayed when Output is off  
On state indicated by LED

#### Output Performance

Ripple & Noise : Typically <2mV rms, <10mV pk-pk (CV mode, 20MHz bandwidth)  
Load Regulation : <0.01% of maximum output for a 90% load change (using remote sense)  
Line Regulation : <0.01% of maximum output for 10% line change  
Transient Response : <200µs to within 50mV of setting for a 5% to 95% load change  
Temp. Coefficient : Voltage: typically <100ppm/°C

#### Output Protection

Output Protection : Outputs will withstand forward voltages up to 40V  
Reverse protection by diode clamp for currents to 3A

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### Output Connections

Output Terminals : Universal 4mm safety binding posts on 19mm (0.75") spacing  
Terminals can accept fixed shroud 4mm plugs, standard 4mm plugs, fork terminals and bare wires

### Remote Sense

Sense Selection : Voltage sensing is selected as Local or Remote by front panel switch  
Sense Terminals : Sprung loaded screw-less terminals

### Meter Specifications

Display Type : Dual 4-digit meters, 14mm (0.56") LED

#### Voltage Meter

Resolution : 10mV  
Accuracy : 0.3% of reading  $\pm$  3 digits

#### Current Meter

Resolution : 1mA  
Accuracy : 0.5% of reading  $\pm$  3 digits

#### Voltage / Current Levels

72-7856 2 x (0 to >35V; 0 to >4A) plus <1.5 to >5.0V @ 5A (305W nominal power)

### Auxiliary Output

Voltage : Variable <1.5V to >5V by front panel control  
Meter accuracy : 0.3%  $\pm$  4 digits  
Current limit : 5A min.  
Load regulation : <0.5% for 90% load change  
Line regulation : <0.1% for 10% line voltage change  
Ripple & Noise : Typically <2mV rms, <10mV pk-pk (20MHz bandwidth)  
Output Protection : Output will withstand up to 7V forward voltage  
Diode clamp reverse protection for currents up to 3A  
Output Terminals : Universal 4mm safety binding posts on 19mm (0.75") spacing  
Status Indication : UNREG lamp

### Part Number Table

Description	Part Number
Power Supply, Bench, 35V / 5V, 600VA	72-7856

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