

Laboratory Grade Triple Output Dual Tracking DC regulated power supply

DPD-1850 / 3030 / 6015 (Linear mode)

Manson



Description

The DPD series are intended for engineers who need a wide range of voltage and current to cover their applications with ease.

Double the voltage or current can be obtained in series mode or parallel mode respectively with the two independent and fully isolated outputs by the mode selector switch .

The master unit controls the combined outputs with accurate tracking capability. Constant Current, CC and Constant Voltage, CV with automatic cross over are effective in all three modes.

To offer maximum versatility for electronic engineer, the DPD series have a third separate 5A, 1.5~6V adjustable output for old and new logic circuits such as Fast & LS TTL.

The current and voltage level of this third output can be read in the Master's LED meters.

The specifications of the line , load regulation and ripple and noise limits are comparable to if not better than the reputable make in the industry

Features

- Simultaneous digital metering of current and voltage
- Twin 4 digit meters with large LED display.
- 00.01Volts and 0.001Amps resolution metering.
- Selectable Switch for Normal and Series/Parallel Dual Tracking modes.
- Precise control of voltage & current settings by wire-wound potentiometers.
- Laboratory grade line and load regulation and low ripple and noise.
- Variable Current Limiting with auto cross- over and indication (CC,CV)
- High current(5A), variable voltage (1~6.5V) auxiliary output with overload LED.
- Metering of voltage and current of auxiliary output.
- Retractable Alloy Handles.

Typical Applications

- Product Design
- Bench Calibration and Repair
- Manufacturing Production Tests
- Training.



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Specification	DPD - 1850	DPD - 3030	DPD - 6015
Master / Slave Independent Output			
Output Voltage Range	0 - 18VDC	0 - 30VDC	0 - 60VDC
Load Voltage Regulation (0-100% Load)	≤ 0.01% + 3mV		
Line Regulation (± 10% Variation)	≤ 0.01% + 3mV		
Ripple & Noise (RMS)	≤ 1mV		
Output Current Range	0 - 5ADC	0 - 3ADC	0 - 1.5ADC
Load Current Regulation	≤ 0.2% + 3mA		
Line Current Regulation	≤ 0.2% + 3mA		
Ripple Current	≤ 3mA R.M.S.		
Recovery Time	≤ 100μ second		
Series Mode Output			
Output Voltage Range	0 - 36VDC	0 - 60VDC	0 - 120VDC
Output Current Range	0 - 5ADC	0 - 3ADC	0 - 1.5ADC
Load Regulation	≤ 300mV		
Tracking Error	≤ 0.5% +10mV		
Parallel Mode Output			
Output Voltage Range	0 - 18VDC	0 - 30VDC	0 - 60VDC
Output Current Range	0 - 10ADC	0 - 6ADC	0 - 3ADC
Load Regulation	≤ 300mV		
Tracking Error	≤ 0.5% +10mV		
Auxillary Output			
Output Voltage Range	1.5 - 6VDC		
Rated Output Current	5A (5A foldback limited)		
Load Voltage Regulation (0-100% Load)	≤ 10mV		
Line Regulation (±10% Variation)	≤ 5mV		
Ripple & Noise (RMS)	≤ 1mVrms		

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General

- Selectable Input Voltage :** - 110VAC / 120VAC / 230VAC / 240VAC $\pm 10\%$,
- Frequency 50 / 60 Hz
- Meters & Displays :** - C.C. & C.V. Indicators
- 4-Digit LED Meters
- Voltmeter Accuracy $\pm 0.5\%$ +2 Counts
- Voltmeter Resolution 10mV
- Ammeter Accuracy $\pm 0.5\%$ +2 Counts
- Ammeter Resolution 1mA
- Green LED :** - Master's Voltmeter & Ammeter switched to read Auxilliary output
- Red LED :** - Auxilliary Output Overload indication
- Insulation :** * Withstanding test (60 second 1mA) 1500V :-
- Power cord to housing
- Power cord to output terminal.
* Withstanding test (60 second 10mA) 500V :-
- Output terminal to housing.
* Insulation Resistance at 500VDC :-
- Housing to power cord 30 mega Ohm
- Housing to output terminal 30 mega Ohm
- Cooling System :** - Fan Cool
- Protection :** - Overload
- Over Temperature
- Short Current
- Reverse Polarity
- Input Socket with 8A Fuse
- EMC & Electrical Safety :** - Designed & Manufactured to meet CE Standard
- Dimension :** - 379 x 280 x 135 mm
- Weight :** - 12Kgs

~ SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE ~