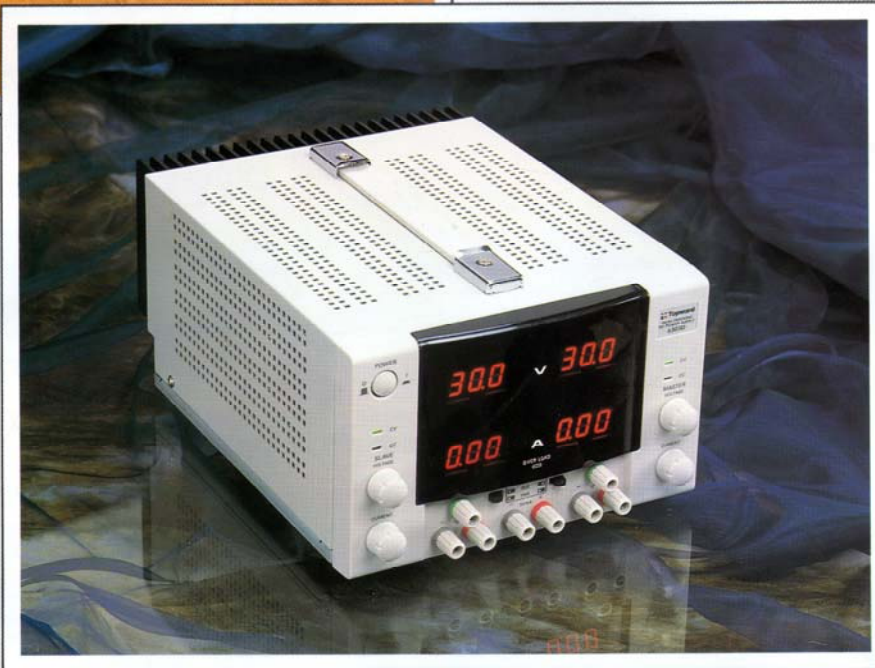


REGULATED DC POWER SUPPLY 3000 / 6000 SERIES



The 3000 series supplies variable single output with 2 analog or digital displays. The 6000 series supplies variable dual outputs with 4 analog or digital displays plus a fixed 5V/5A output. All the variable outputs can be connected in parallel or series to get multiple output currents or voltages. The 10-Turn voltage control is available for 6000D series.

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Order Information

3	3	0	1	0	D
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3 : 3000 Series
 30 : Voltage 30V
 10 : Current 10A
 D : Digital Display
 S Size : 120W×160H×295Dmm
 L Size : 230W×160H×366Dmm

Model	Dimension	Model Type		Voltage / Current
3203	S	A	D	20V/3A
3302	S	A	D	30V/2A
3303	S	A	D	30V/3A
3601	S	A	D	60V/1A
3306	L	----	D	30V/6A
3603	L	----	D	60V/3A
33010	L	----	D	30V/10A

6	3	0	2	A	-	1	0
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6 : 6000 Series
 30 : Voltage 30V
 2 : Current 2A
 A : Analog Display
 10 : 10 Turn Voltage Control
 L Size : 230W×160H×366Dmm

Model	Dimension	Model Type			Voltage / Current
6302	L	A	D	D-10	±30V/2A , 5V/5A
6303	L	A	D	D-10	±30V/3A , 5V/5A
6306	L	A	D	D-10	±30V/6A ,5V/5A
6603	L	A	D	D-10	±60V/3A , 5V/5A



4 Built-In Analog / Digital Displays.

Constant Voltage / Current.

Series / Parallel Available With Other Sets.

Short Circuit / External Input Protection.

Auto Series / Parallel Selectable.

Additional 5V/5A Fixed Output.

Master / Slave Selectable.

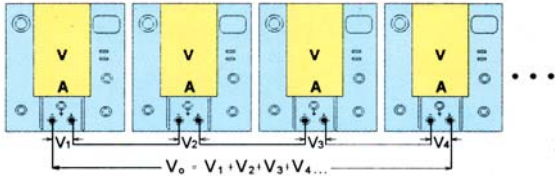
10-Turn Voltage Control Optional (6000-10 Only).

Specification

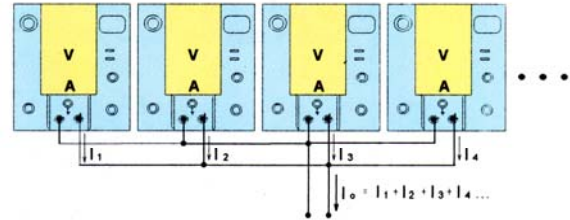
Tracking Operation	
Tracking Error	$\pm 0.2\% + 10\text{mV}$
Series Regulation	$\leq 0.3\% + 10\text{mV}$
5V Fix Output	
Load Regulation	$\leq 10\text{mV}$
Line Regulation	$\leq 5\text{mV}$
Ripple & Noise	$\leq 2\text{mVrms}$
Voltage Accuracy	$5\text{V} \pm 0.25\text{V}$
Output Current	5A
Operation Mode	
Independent	Two Independent Outputs and 5V Fixed Output. Output From 0 to Rating Volts and 0 to Rating Amperes.
Series	Output From 0 to \pm Rating Volts at Rating Amperes. Output From 0 to Double Rating Volts at Rating Amperes.
Parallel	Output From 0 to Double Rating Ampere at Rating Volts.
Power Source	ACV 100/120/220/240 +/- 10%, 50/60HZ
Accessories	ACS-002 *2 , Operation Manual

Illustration

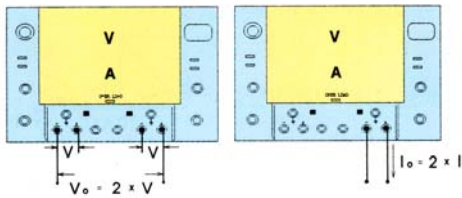
1. 3000 series connected in series (up to 240V).



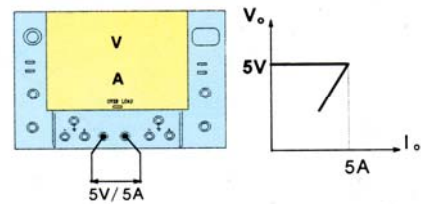
2. 3000 series connected in parallel (up to 24A).



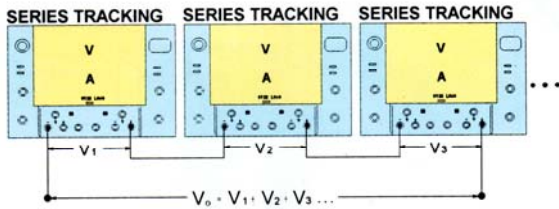
3. 6000 series used in series / parallel tracking mode to supply double output voltage / current.



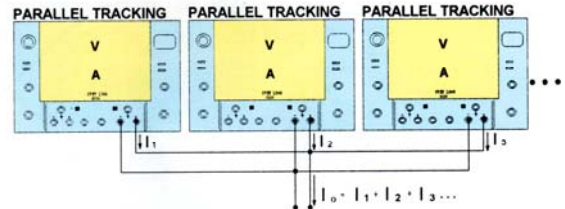
4. 5V/5A fixed output



5. 6000 series connected in series (up to 240V).



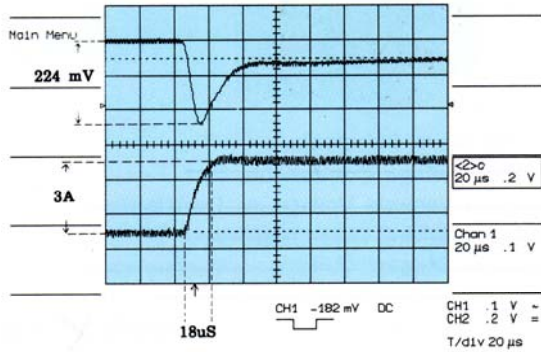
6. 6000 series connected in parallel (up to 24A).



Illustration

7. Output impedance

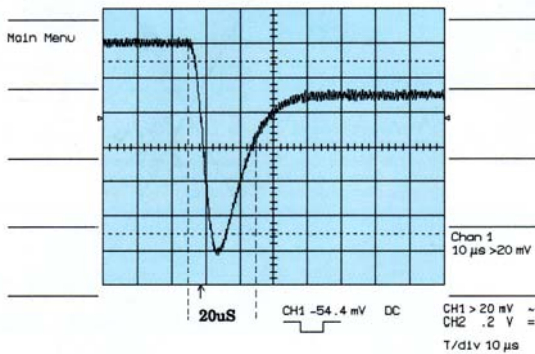
The very low output inductance $2\mu\text{H}$ produces very little overshoot of the output voltage during fast changes of load.



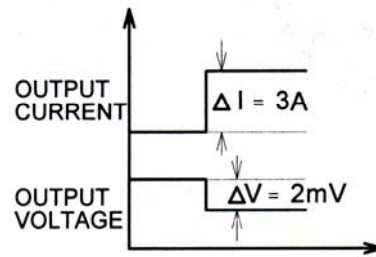
$$L = \frac{\Delta V \times \Delta T}{\Delta I} = \frac{224\text{mV} \times 18\mu\text{S}}{3\text{A}} = 1.34\mu\text{H}$$

8. Recovery time

The series takes less than $100\mu\text{S}$ to settle within 0.1% of the set voltage when the load current changes from 50% to 100%.



The very low output resistance of $2\text{m}\Omega$ produces minimal output voltage variation with large changes in load.



$$R_o = \frac{\Delta V}{\Delta I} = \frac{2\text{mV}}{3\text{A}} = 0.67\text{m}\Omega$$

9. Programming speed

Programming speed is the time needed for the output voltage to rise from 10% to 90% of the setting voltage (rise time) or fall from 90% to 10% of the setting voltage (fall time) under full load or no load condition.

