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General

Main Supply (switch selectable)	100V/120V/220V \pm 10% 50/60Hz. 230V +10% -6% 50/60Hz.
Input Power Rating	GPS2303 350W (450VA) GPS3303 420W (550VA) GPS4303 420W (550VA) GPS4302 320W (420VA) GPS4251 150W (185VA)
Operation Environment	Indoor use. Altitude up to 2000m. Ambient temperature 0°C to 40°C. Relative humidity 80% (maximum). Installation category II. Pollution degree 2.
Storage Temperature & Humidity	-10°C to 70°C .70% (maximum).
Accessories	Operation Manual
Dimensions	255(W) \times 145(H) \times 265(D) m/m
Weight (kg)	7.0 kg.

Operating Modes

Independent	Two independent outputs adjustable from 0 to rated output, voltage or current CH1 and CH2 0~30V (GPS2303/GPS3303) CH1 and CH2 0~30V (GPS4303/GPS4302) CH1 and CH2 0~25V (GPS4251) CH3 2.2~5.2V (GPS4302/4303) CH3 3~6V (GPS4251) CH3 Fixed 5V (GPS3303) CH4: 8~15V (GPS4302/4303/4251)
Series	Output from 0V to rating volts at rating amperes. Output from 0V to double rating volts at rating amperes.
Parallel	Output from 0V to double rating amperes at rating volts.

**Constant Voltage Operation**

Output voltage range	0V to rating voltage, continuously adjustable.
Regulation	Line regulation $\leq 0.01\% + 3\text{mV}$. Load regulation $\leq 0.01\% + 3\text{mV}$ (current $\leq 3\text{A}$). Load regulation $\leq 0.02\% + 5\text{mV}$ (current $> 3\text{A}$).
Recovery time	$\leq 100\mu\text{s}$ (50% load change, minimum load 0.5A).
Ripple & Noise	$\leq 1\text{mVrms}$ (5Hz-1MHz).
Temperature coefficient	$\leq 300\text{ppm}/^\circ\text{C}$.

Constant Current Operation

Output current range	0A to rating current continuously adjustable.
Regulation	Line regulation $\leq 0.2\% + 3\text{mA}$. Load regulation $\leq 0.2\% + 3\text{mA}$.
Ripple current	$\leq 3\text{mA}_{\text{rms}}$.

Tracking Operation

Parallel Operation

Regulation	Line regulation $\leq 0.01\% + 3\text{mV}$. Load regulation $\leq 0.01\% + 3\text{mV}$ (current $\leq 3\text{A}$). $\leq 0.02\% + 5\text{mV}$ (current $> 3\text{A}$).
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Series Operation

Regulation	Line regulation $\leq 0.01\% + 5\text{mV}$. Load regulation $\leq 300\text{mV}$.
A. Positive and Negative supply	CH2 tracking error $\leq 0.5\% + 10\text{mV}$ of CH1 with no load. Add $\leq 300\text{mV}$ when loaded.
B. Single supply	

Meter

Display Amps	3 digit panel meter $\times 2$ (0.5" Red LED display).
Display Volts	3 digit panel meter $\times 2$ (0.5" Green LED display).
Accuracy	Output On $\pm(0.5\%$ of reading + 2 digits) Output Off $\pm(0.5\%$ of reading + 8 digits) Does not apply to GPS2303
Voltmeter	99.9V of full scale.
Ammeter	9.99A of full scale.

CH3 Output Specifications

Regulation	Line regulation $\leq 5\text{mV}$ Load regulation $\leq 15\text{mV}$.
Ripple & Noise	$\leq 2\text{mVrms}$.



Output Voltage range	GPS4302/4303: 2.2~5.2V±8% with continuous adjustment. GPS3303 fixed 5V±8%. GPS4251 3~6V±8% with continuous adjustment
Output current	GPS3303&4302 3A GPS4303. 1A GPS4251 2.5A

CH4 Output Specifications

Regulation	Line regulation $\leq 5\text{mV}$, load regulation $\leq 10\text{mV}$.
Ripple & Noise	$\leq 2\text{mVrms}$.
Output Voltage range	GPS4302/4303:/4251 8~15V±8% continuous adjustment.
Output current	1A

Insulation

Between chassis and output terminal	$> 20\text{M}\Omega$ (DC 500V).
Between chassis and AC cord	$> 30\text{M}\Omega$ (DC 500V).

Test Leads

MODEL	Operating Mode			VA	Test Lead	
	Indep.	Ser.	Par.		Current $\leq 3\text{A}$	Current $4\text{A} \leq 10\text{A}$
GPS2303	0~30V×2 0~3A×2	60V 3A	60V 6A	450	0	2
GPS3303	0~30V×2 0~3A×2	60V 3A	60V 6A	550	1	2
GPS4303	0~30V×2 0~3A×2	60V 3A	60V 6A	550	2	2
GPS4302	0~30V×2 0~2A×2	60V 2A	60V 4A	420	2	2
GPS4251	0~25V×2 0~0.5A×2	50V 0.5A	25V 1A	185	4	0