

Features

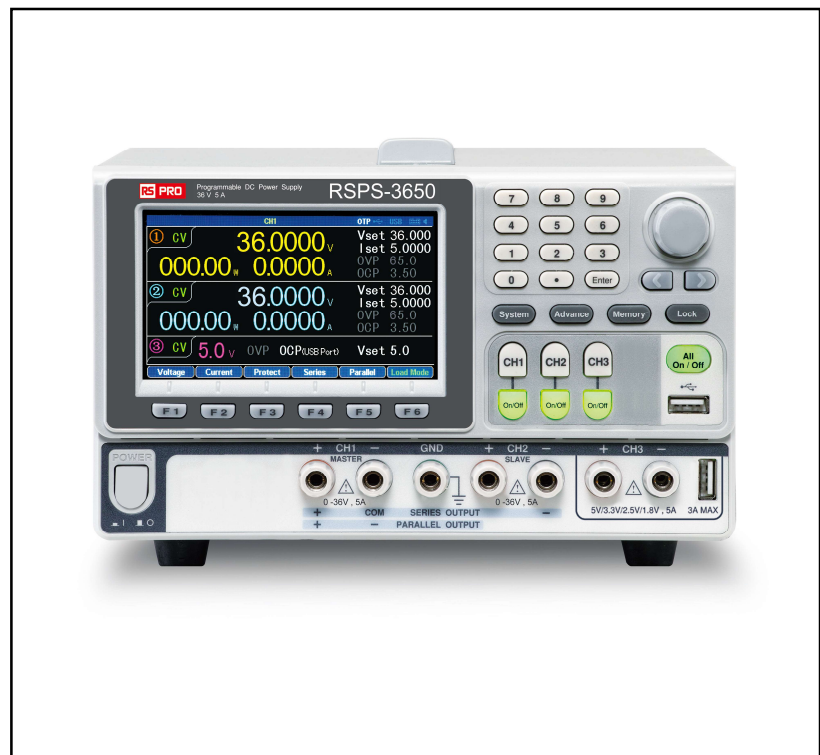
- 4.3" TFT LCD Display
- Setting resolution: 2mV / 0.1mA.
- Read back resolution: 0.1mV / 0.1mA
- Low ripple noise: $\leq 1\text{mVrms} / \leq 2\text{mA}_{\text{rms}}$
- Transient response time: $\leq 100\mu\text{s}$
- Load function (CC, CV, CR mode)
- Tracking series and parallel function without additional external wiring
- Utilizing hardware to realize over voltage protection / over current protection / over temperature protection.
- Delay function / output monitoring function / output recorder function
- Supports setting value, measurement value and output waveform display.
- Sequential output function and built-in 8 template waveforms
- The output recorder function records the output voltage & current parameters with a minimum recording interval of 1 second.
- Provides 10 sets of memory for each sequence/delay/recorder/panel setting condition.
- GPP-3650 supports a USB (Type A) output terminal.
- Intelligent temperature control fan effectively

RS PRO Bench Power Supplies

RS Stock No.:

0642966


0642967



RS PRO is the own brand of RS. The RS PRO Seal of Approval is your assurance of professional quality, a guarantee that every part is rigorously tested, inspected, and audited against demanding standards. Making RS PRO the Smart Choice for our customers.

Electrical Specifications

The specifications apply under the following conditions: The GPP series is powered on for at least 30 minutes, within +20°C-+30°C.

Power Mode			
Output Rating	CH1/CH2 Independent	0 - 36.000V , 0 - 5.0000A ()	
	CH1, CH2 Series	0 - 72.000V , 0 - 5.0000A ()	
	CH1, CH2 Parallel	0 - 36.000V , 0 - 10.0000A ()	
Voltage	Line regulation	≤ 0.01% + 3mV	
	Load regulation	≤ 0.01% + 5mV (rating current ≤ 10A)	
	Ripple & noise (5Hz-1MHz)	≤1mVrms(CH1/CH2); ≤2mVrms(CH3)	
	Transient recovery time	≤100μs) (50% load change, minimum load 0.5A)	
	Temperature coefficient	≤ 300ppm/°C	
Current	Line Regulation	≤ 0.01% + 3mA	
	Load Regulation	≤ 0.01% + 3mA	
	Ripple & noise	≤ 2mArms	
Tracking Operation	Tracking error	≤ ±(0.1% +10mV of Master) (No Load, with load add load regulation≤200mV)	
	Parallel regulation	Line: ≤ 0.01% + 3mV Load:≤ 0.01% + 5mV (rating current ≤ 10A) ≤ 0.02% + 5mV (rating current > 10A)	
		Series regulation	Line: ≤ 0.01% + 5mV Load: ≤ 200mV
			Ripple & noise
	Resolution	Voltage	programming 1mV,readback 0.1mV programming 2mV,readback 0.1mV programming 0.2mA,readback 0.1mA) programming 0.1mA,readback 0.1mA)
		Current	
Accuracy	Ammeter	5.2A() programming 5 digits, readback 5 digits	
	Voltmeter	36.5V() programming 5 digits, readback 6 digits	
		Setting accuracy	Voltage: ≤ ± (0.03% of reading + 10mV) Current: ≤± (0.3% of reading + 10mA)
	Readback accuracy	Voltage: ≤± (0.03% of reading + 10mV) Current: ≤± (0.3% of reading + 10mA)	
Bindpost	Output voltage	1.8V/2.5V/3.3V/5.0V, ±5%	
	Output current	5A	
CH3	Line regulation	≤ 3mV	
	Load regulation	≤ 5mV	
	Ripple & noise	≤ 2mVrms (5Hz - 1MHz)	
	Transient recovery time	≤ 100μs (50% load change, minimum load 0.5A)	
USB Port	Output	1.8V,2.5V,3.3V,5V,±0.35V, 3A	
 Warning	The output current from the 2 terminals should Not exceed 5A.		
Load Mode			
Display	Voltage	1-36.50V	
	Current	0-5.200A	
	Power	0-50.00W(CH1/CH2)	
CV Mode	CH1/CH2	1.500V - 36.50V	

	Setting/Readback accuracy	$\leq \pm(0.1\% + 30\text{mV})$
	Resolution	10mV
CC Mode	CH1/CH2	0 - 5.200A
	Setting/Readback accuracy	$\leq \pm(0.3\% + 10\text{mA})$
	Resolution	1mA
	CH1/CH2	1 Ω - 1k Ω
CR Mode	Setting/Readback accuracy	$\leq \pm(3\% + 1\Omega)$ (voltage $\geq 0.1\text{V}$, and current $\geq 0.1\text{A}$)
	Resolution	1 Ω
Other Mode		
OVP	Power mode	CH1/CH2:OFF,ON(0.5V-38.0V) CH3:Fixed 5.5V
	Load mode	OFF,ON(1.5V-38.0V) ()
	Setting accuracy	$\leq \pm 100\text{mV}$
	Resolution	100mV
OCP	Power/Load mode	OFF,ON(0.05A-5.50A)() CH3:3.1A(USB port)
	Setting accuracy	$\leq \pm 20\text{mA}$
	Resolution	10mA
Insulation resistance	Between chassis and terminal	20M Ω or above (DC 500V)
	Between chassis and DC power cord	30M Ω or above (DC 500V)
Operation Environment	Indoor use, Altitude: $\leq 2000\text{m}$ Ambient temperature: 0 ~ 40°C Relative humidity: $\leq 80\%$ Installation category: II Pollution degree: 2	
Storage Environment	TEMPERATURE: -10°C ~ 70°C HUMIDITY: $\leq 70\%$	
Power input consumption	AC 100V/120V/220V/230V $\pm 10\%$, 50/60Hz 900VA,680W	
Accessories	Power Code * 2 (UK/VDE Types) Test lead: GTL-104A x 3	
Dimensions	213 (W) x 145 (H) x 362 (D) mm	
Weight	Approx. 10kg	

Safety Approval

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EN 61326-1: 2013	Electrical equipment for measurement, control and laboratory use -- EMC requirements (2013)
EN 61326-2-1: 2013	
Conducted & Radiated Emission EN 55011: 2016+A1:2017 (Class A)	Electrical Fast Transients EN 61000-4-4: 2012
Current Harmonics EN 61000-3-2: 2019	Surge Immunity EN 61000-4-5: 2014/AMD1:2017
Voltage Fluctuations EN 61000-3-3: 2013+A1:2019	Conducted Susceptibility EN 61000-4-6: 2014
Electrostatic Discharge EN 61000-4-2: 2009	Power Frequency Magnetic Field EN 61000-4-8: 2010
Radiated Immunity EN 61000-4-3:2006+A1:2007+A2:2010	Voltage Dip/ Interruption EN 61000-4-11: 2020

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Low Voltage Equipment Directive 2014/35/EU	
Safety Requirements	EN 61010-1: 2010(Third Edition) +A1:2019

Order Information

385W triple-channel programmable DC power supply

