

## RS PRO Bench Power Supplies

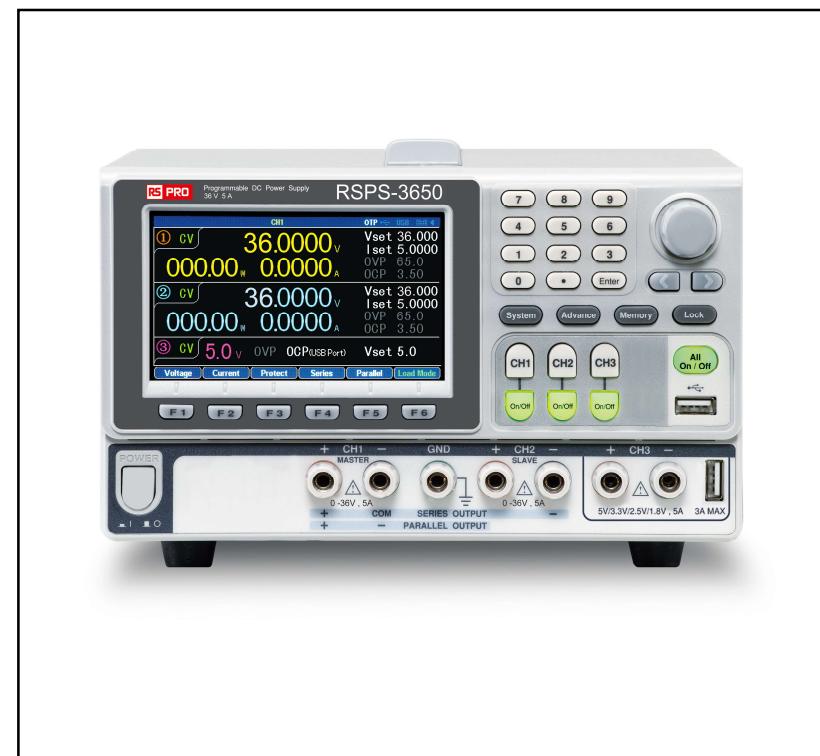
### Features

- 4.3" TFT LCD Display
- Setting resolution: 2mV / 0.1mA.
- Read back resolution: 0.1mV / 0.1mA
- Low ripple noise:  $\leq$  1mVrms/  $\leq$  2mArms
- Transient response time:  $\leq$  100 $\mu$ 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 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

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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	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	≤ 2mA rms
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
Resolution	Ripple & noise	≤2mVrms(5Hz-1MHz)
	Voltage	programming 1mV, readback 0.1mV programming 2mV, readback 0.1mV programming 0.2mA, readback 0.1mA programming 0.1mA, readback 0.1mA)
	Current	5.2A()
Accuracy	Ammeter	programming 5 digits, readback 5 digits
	Voltmeter	36.5V()
	Setting accuracy	programming 5 digits, readback 6 digits Voltage: ≤ ± (0.03% of reading + 10mV) Current: ≤± (0.3% of reading + 10mA)
Readback accuracy	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%
CH3	Output current	5A
	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
 <b>Warning</b>	The output current from the 2 terminals should Not exceed 5A.	
<b>Load Mode</b>		
Display	Voltage	1-36.50V
	Current	0-5.200A
	Power	0-50.00W(CH1/CH2)
CV Mode	CH1/CH2	1.500V - 36.50V

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	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
CR Mode	CH1/CH2	1Ω - 1kΩ
	Setting/Readback accuracy	$\leq \pm(3\% + 1\Omega)$ (voltage $\geq 0.1\text{V}$ , and current $\geq 0.1\text{A}$ )
	Resolution	1Ω
	<b>Other Mode</b>	
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	20MΩ or above (DC 500V)
	Between chassis and DC power cord	30MΩ 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±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

## ◎ EMC

EN 61326-1: 2013 EN 61326-2-1: 2013	Electrical equipment for measurement, control and laboratory use -- EMC requirements (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

## ◎ Safety

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

