

Datasheet

Multiple Output Programmable Linear D.C. Power Supply

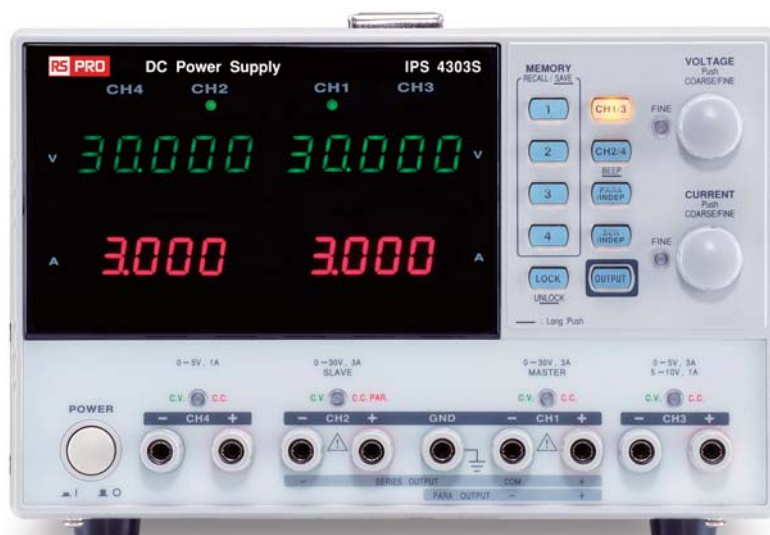
Stock No. : Model :

123-3558 **IPS-2303S**

123-3559 **IPS-3303D**

123-3560 **IPS-3303S**

123-3561 **IPS-4303S**



FEATURES

- 2,3,and 4 Independent Isolated Output
- 4 LED Display Sets : 3 Digits After Decimal Point (IPS-2303S/3303S/4303S)
- Minimum Resolution : IPS-2303S/3303S/4303S (1mV/1mA)
IPS-3303D (100mV/10mA)
- Digital Panel Control (Rotary Encoder Switch, Rubber Key With Indicator)
- User-Friendly Operation, Coarse/Fine Volume Control
- 4 Sets Save/Recall
- Key-Lock
- Output ON/OFF
- Tracking Series and Parallel Mode
- Smart Cooling Fan Achieving Low Noise
- Compact Design
- PC Software & USB Driver
- USB Standard Interface

The IPS-Series contain the superior technology and high quality which RS PRO had established through its long history of power supply design and manufacturing. The IPS-Series offers digital panel control, large display, bright LED indicators, high output resolution, 4 sets of setup memory, USB remote control and smart cooling fan control. Additionally, the IPS-Series provide easy operation, a wide selection of panel settings and the most important for a reasonable price. All these features make the IPS-Series the most promising new comer in the power supply market.

High Resolution

With 1mV/1mA (for IPS-2303S/3303S/4303S) high resolution and coarse/fine volume control the IPS-Series, guarantees clean and stable output. Using the IPS-Series you can easily simulate the device under test's accurate behavior against small changes in voltage or current, which is impossible when using a low resolution power supply.

Tracking Series and Parallel Function

Tracking series and parallel function allows you to use the IPS-Series in wide range of applications. The tracking series mode guarantees higher output voltage, while the tracking parallel mode guarantees higher output current.

Convenience Functions

The knobs are digitally controlled, allowing fine or coarse volume setting. The key lock feature locks panel operations, preventing accidental change of the settings which might lead damaging for the equipments.

4 Sets of Save / Recall

The IPS-Series can save and recall panel settings, these feature which can not offered by general power supplies. You can quickly select a panel setting from four memory sets without manual configuration.

USB Remote Control

The USB device port in the IPS-Series allows you to remotely control the power supply according to your application needs.

APPLICATIONS

- Laboratories and Educational Facilities
- Product Testing and Quality Assurance
- Service Operation and Post-Sales Support
- Product Development and Debugging

FUNCTION FEATURES



1. Bright LED display shows settings or actual level of output
2. The independent CH3 output offers three commonly used voltage settings (IPS-3303S/3303D only)
3. C.V./C.C. modes are clearly indicated in different colors
4. Smart cooling fan control offers a well-balanced cooling mechanism, ensuring quiet operation
5. The tracking series and parallel mode can be selected with a single touch
6. Indicators embedded in the keys provide an instant view of the power supply status; the Key Lock feature prevents improper operation

SPECIFICATIONS													
		IPS-2303S		IPS-3303S			IPS-4303S				IPS-3303D		
OUTPUT	Channel Voltage Current	CH1	CH2	CH1	CH2	CH3	CH1	CH2	CH3	CH4	CH1	CH2	CH3
		0~30V	0~30V	0~30V	0~30V	2.5/3.3/5.0V	0~30V	0~30V	0~5V or 5.001V~10V	0~5V	0~30V	0~30V	2.5/3.3/5.0V
		0~3A	0~3A	0~3A	0~3A	0~3A	0~3A	0~3A	0~3A or 0~1A	0~1A	0~3A	0~3A	0~3A
CONSTANT VOLTAGE OPERATION	Regulation	Line regulation $\leq 0.01\%+3\text{mV}$ Load regulation $\leq 0.01\%+3\text{mV}$ (rating current $\leq 3\text{A}$) $\leq 0.02\%+5\text{mV}$ (rating current $>3\text{A}$)											
	Ripple & Noise Recovery Time Temp.Coefficient Output Range	$\leq 1\text{mVrms}$ (5Hz~1MHz) $\leq 100\mu\text{S}$ (50%Load change, Minimum load 0.5A) $\leq 300\text{ppm}/^{\circ}\text{C}$ 0 to rating voltage continuously adjustable											
CONSTANT CURRENT OPERATION	Regulation	Line regulation $\leq 0.2\%+3\text{mA}$ Load regulation $\leq 0.2\%+3\text{mA}$											
	Ripple Current Output Range	$\leq 3\text{mA}_{\text{rms}}$ 0 to rating current continuously adjustable											
TRACKING OPERATION	Regulation of PAR.	Line regulation $\leq 0.01\%+3\text{mV}$ Load regulation $\leq 0.01\%+3\text{mV}$ (rating current $\leq 3\text{A}$) $\leq 0.02\%+5\text{mV}$ (rating current $>3\text{A}$)											
	Regulation of SER.	Line regulation $\leq 0.01\%+5\text{mV}$ Load regulation $\leq 300\text{mV}$ Tracking error $\leq 0.5\%\pm 10\text{mV}$ (10 ~ 30V no load) with load added $\leq 300\text{mV}$ $\leq 0.5\%\pm 30\text{mV}$ (0 ~ 9.99V no load) with load added $\leq 300\text{mV}$)											
	Tracking error	$\leq 0.5\% + 10\text{mV}$									$\leq 0.5\% + 50\text{mV}$		
METER	Display	Voltage : 4 3/4 digits 0.4" LED Display Current : 3 3/4 digits 0.4" LED Display									Voltage:2 3/4 digits 0.4" LED Display Current:2 3/4 digits 0.4" LED Display		
	Resolution	Voltage : 1mV Current : 1mA									Voltage:100mV Current:10mA		
	Program Accuracy(25 $\pm 5^{\circ}\text{C}$)	Voltage : $\pm(0.03\%$ of RDG +10 digits) Current : $\pm(0.3\%$ of RDG +10 digits)									Voltage: $\pm(0.5\%$ of RDG+2 digits) Current: $\pm(0.5\%$ of RDG+2 digits)		
	Readback Accuracy(25 $\pm 5^{\circ}\text{C}$)	Voltage : $\pm(0.03\%$ of RDG +10 digits) Current : $\pm(0.3\%$ of RDG +10 digits)									Voltage: $\pm(0.5\%$ of RDG+2 digits) Current: $\pm(0.5\%$ of RDG+2 digits)		
CH3 SPECIFICATIONS	Output Voltage Output Current Regulation(25 $\pm 5^{\circ}\text{C}$)	—	(2.5V/3.3V/5V) $\pm 8\%$ 3A Line regulation $\leq 0.01\%+3\text{mV}$ Load regulation $\leq 0.01\%+3\text{mV}$ $\leq 1\text{mVrms}$ (5Hz~1MHz)			0~5V / 5~10V 0~3A / 0~1A Line regulation $\leq 0.01\%+3\text{mV}$ Load regulation $\leq 0.01\%+3\text{mV}$ $\leq 2\text{mVrms}$ (5Hz~1MHz)				(2.5V/3.3V/5V) $\pm 8\%$ 3A Line regulation $\leq 0.01\%+3\text{mV}$ Load regulation $\leq 0.01\%+3\text{mV}$ $\leq 1\text{mVrms}$ (5Hz~1MHz)			
	Repple & Noise		$\leq 1\text{mVrms}$ (5Hz~1MHz)			$\leq 2\text{mVrms}$ (5Hz~1MHz)				$\leq 1\text{mVrms}$ (5Hz~1MHz)			
KEY LOCK	Yes												
MEMERY SAVE/RECALL	4 sets												
POWER SOURCE	AC100V/120V/220V/230V $\pm 10\%$, 50/60Hz												
DIMENSION & WEIGHT	210(W) x 130 (H) x 265 (D) mm ; Approx. 7kg												

Specifications subject to change without notice.

ORDERING INFORMATION		ACCESSORIES	
IPS-2303S	IPS-2303S 2 Channels, 180W Programmable Linear DC Power Supply	User Manual x 1 , Power cord x 1	
IPS-3303S	IPS-3303S 3 Channels, 195W Programmable Linear DC Power Supply	IPS-2303S Test Lead GTL-104Ax2	
IPS-4303S	IPS-4303S 4 Channels, 195W Programmable Linear DC Power Supply	IPS-3303S Test Lead GTL-104Ax2, GTL-105Ax1	
IPS-3303D	IPS-3303D 3 Channels, 195W Programmable Linear DC Power Supply	IPS-4303S Test Lead GTL-104Ax2, GTL-105Ax2	
		IPS-3303D Test Lead GTL-104Ax2, GTL-105Ax1	