



Datasheet Multi-range D.C. Power Supply

Stock No.: Model:

123-3573 IPS 30-36 123-3574 IPS 30-72 124-0235 IPS 30-108 124-0236 IPS 80-13.5 124-0237 IPS 80-27 123-3575 IPS 80-40.5









FEATURES

- Output Power Rating: 360W~1080W
- Constant Power Output for Multi-Range (V & I) Operation
- C.V/C.C Priority; Particularly Suitable for the Battery and LED Industry
- Adjustable Slew Rate
- Series and Parallel Operation (2 units in Series/3 units in Parallel Maximum)
- High Efficiency and High Power Density
- 1/2, 1/3, 1/6 Rack Mount Size Design
 (EIA/JIS Standard) for 360W, 720W, 1080W
- Standard Interface: LAN, USB, Analog Control Interface
- Optional Interface : GPIB-USB Adaptor
- LabVIEW Driver





The RS PRO IPS-30/80 Series of products launched six models with the combination of 30V and 80V rated voltages and the same output power capacity. The multi-range feature allows the flexible and efficient configuration of voltage and current within the rated power range.

The IPS-Series is a regulated switching D.C. power supplies with high voltage and high current output. It operates under Constant Current (C.C.) mode or Constant Voltage (C.V.) mode within a wide operating range limited by the output power. To increase power output capacity, the IPS-Series can be connected in Series mode to perform double voltage rating or in parallel mode to perform triple current rating for each model.

With Multi-Range feature and Series/Parallel connection capability, the IPS-Series is a high power density and cost-effective equipment for the tests of DC power modules, batteries and components in a broad power range.

IPS-Series provides C.C./C.V. Priority Mode, Adjustable Slew Rate, and Output On/Off Delay Functions. C.C. Priority mode can be selected to inhibit the automatic-switch-to-CV-mode caused while the voltage or current is deviated from the original settings. The C.C. and C.V. Priority Selection enables the power supply to prevent the damage of DUT caused by inrush current. Thus, the adjustable slew rate enables user to adjust the rise and fall time of the Voltage and Current, to gain the faster response of the level change. Also, output On/Off delay feature enables users to program the time delays of ON/OFF for each one in case of multiple power supplies are used at the same time.

The IPS-Series is equipped with a bleed resistor at the power output terminal, which can quickly discharge the capacitors load when the power supply is turned off and the load is disconnected. Without a bleed resistor, the power output terminal may remain charged with the filter capacitors for some time and be potentially hazardous to the users. In the ATE (Automatic Test Equipment) system, the bleed resistor facilitates the IPS-Series quickly being discharged and returned to the "ready" status for the next run after each test. Furthermore, the OVP and OCP protections were equipped within the IPS-Series. The range of setting condition of both OVP and OCP is from 10% to 110% of rated voltage/current. When any of the protection levels is triggered, the power output will be switched off to protect the DUT.

The panel lock feature is designed to avoid the original settings being changed accidentally. When the power supply turns into PC remote control mode, the panel will be locked automatically; or preventing any operation mistake, users can manually press the "Lock/Local" key to lock the panel. Likewise, if users would like to unlock the panel, then they can press the same button to dissolve the locked panel.

The IPS-Series provides USB Host/Device and LAN interfaces as standard and GPIB-USB as optional. The LabView driver and the Data Logging PC software are supported on all available interfaces. An analog control/monitoring connector is also accessible at the rear panel for external control of power On/Off and external monitoring of power output Voltage and Current.

APPLICATIONS

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





SPECIFICATIONS						
	IPS 30-36	IPS 30-72	IPS 30-108	IPS 80-13.5	IPS 80-27	IPS 80-40.5
OUTPUT RATING						
Voltage	0 ~ 30V	0 ~ 30V	0 ~ 30V	0 ~ 80V	0 ~ 80V	0 ~ 80V
Current	0 ~ 36A	0 ~ 72A	0 ~ 108A	0 ~ 13.5A	0 ~ 27A	0 ~ 40.5A
Power	360W	720W	1080W	360W	720W	1080W
REGULATION(CV)						
Load Line	0.05% of rating +5					
	0.05% of rating +3	mV				
REGULATION(CC)	0.70/ 6 .: 5	•				
Load Line	0.1% of rating +5n 0.1% of rating +5n					
RIPPLE & NOISE (Noise B			1Hz)			
CV p-p	60mV	80mV	100mV	60mV	80mV	100mV
CV rms	7mV	11mV	14mV	7mV	11mV	14mV
CC rms	72mA	144mA	216mA	27mA	54mA	81mA
PROGRAMMING ACCURAC			1			
Voltage	0.1% +10mV	0.1% +10mV	0.1% +10mV	0.1% +10mV	0.1% +10mV	0.1% +10mV
Current	0.1% + 30mA	0.1% + 60mA	0.1% + 100mA	0.1% + 30mA	0.1% + 30mA	0.1% + 40mA
READBACK ACCURACY		T	I			
Voltage Current	0.1% +10mV	0.1% +10mV	0.1% +10mV	0.1% +10mV 0.1% +10mA	0.1% +10mV	0.1% +10mV
RESPONSE TIME	0.1% +30mA	0.1% +60mA	0.1% +100mA	0.1% +10mA	0.1% +30mA	0.1% +40mA
Raise Time				50	F.O.	F0
Fall Time(Full Load)	50ms 50ms	50ms 50ms	50ms 50ms	50ms 50ms	50ms 50ms	50ms 50ms
Fall Time(No Load)	500ms	500ms	500ms	500ms	500ms	500ms
Load Transient	lms	1ms	lms	1ms	1ms	1ms
Recover Time						
(Load change from 50~100%) PROGRAMMING RESOLUT	TION /By PC Pemote	Control Mode)				
Voltage	1mV	1mV	1mV	1mV	1mV	1mV
Current	1mA	2mA	3mA	1mA	2mA	3mA
MEASUREMENT RESOLUT	ION (By PC Remote	Control Mode)				
Voltage	1mV	1mV	1mV	1mV	1mV	1mV
Current SERIES AND PARALLEL CA	1mA	2mA	3mA	1mA	2mA	3mA
Parallel Operation		uding the meeter unit				
Series Operation		uding the master unit uding the master unit				
PROTECTION FUNCTION						
OVP	10% to 110% of ra	ated output voltage rang	ζe			
OCP	10% to 110% of rated output current range					
OHP	10/0 10 110/0 0112					
EDON'T DANIEL BLOOK		ted internal temperature				
FRONT PANEL DISPLAY AC	Activated by elecat	ted internal temperature				
Voltage	Activated by elecat CCURACY 0.1%±2digits	0.1%±2digits	0.1%±2digits	0.1%±2digits	0.1%±2digits	0.1%±2digits
Voltage Current	Activated by elecat CCURACY 0.1%±2digits 0.1%±4digits	·	es	0.1%±2digits 0.1%±2digits	0.1%±2digits 0.1%±4digits	0.1%±2digits 0.1%±5digits
Voltage Current ENVIRONMENT CONDITION	Activated by elecat CCURACY 0.1%±2digits 0.1%±4digits ON	0.1%±2digits	0.1%±2digits			
Voltage Current ENVIRONMENT CONDITION Operation Temp	Activated by elecate CCURACY 0.1%±2digits 0.1%±4digits ON 0° ~ 50° °	0.1%±2digits	0.1%±2digits			
Voltage Current ENVIRONMENT CONDITION Operation Temp Storage Temp	Activated by elecat CCURACY 0.1%±2digits 0.1%±4digits ON 0°C ~ 50°C -25°C ~ 70°C	0.1%±2digits	0.1%±2digits			
Voltage Current ENVIRONMENT CONDITION Operation Temp	Activated by elecate CCURACY 0.1%±2digits 0.1%±4digits ON 0° ~ 50° °	0.1%±2digits	0.1%±2digits			
Voltage Current ENVIRONMENT CONDITION Operation Temp Storage Temp Operating Humidity	Activated by elecat CCURACY 0.1%±2digits 0.1%±4digits ON 0°C ~ 50°C -25°C ~ 70°C 20% ~ 85% RH 90% RH or Less	0.1%±2digits	0.1%±2digits			
Voltage Current ENVIRONMENT CONDITION Operation Temp Storage Temp Operating Humidity Storage Humidity READ BACK TEMP WEFFIC	Activated by elecat CCURACY 0.1%±2digits 0.1%±4digits ON 0°C ~ 50°C -25°C ~ 70°C 20% ~ 85% RH 90% RH or Less	0.1%±2digits	0.1%±2digits			
Voltage Current ENVIRONMENT CONDITION Operation Temp Storage Temp Operating Humidity Storage Humidity	Activated by elecat CCURACY 0.1%±2digits 0.1%±4digits ON 0°C ~ 50°C -25°C ~ 70°C 20% ~ 85% RH 90% RH or Less	0.1%±2digits	0.1%±2digits			
Voltage Current ENVIRONMENT CONDITION Operation Temp Storage Temp Operating Humidity Storage Humidity READ BACK TEMP WEFFIC Voltage	Activated by elecat CCURACY 0.1%±2digits 0.1%±4digits ON 0° ~ 50 ° C -25° ~ 70 ° C 20% ~ 85% RH 90% RH or Less EIENT 100ppm/° C	0.1%±2digits	0.1%±2digits			
Voltage Current ENVIRONMENT CONDITION Operation Temp Storage Temp Operating Humidity Storage Humidity READ BACK TEMP WEFFIC Voltage Current	Activated by elecat CCURACY 0.19±2digits 0.19±4digits ON 0°C ~ 50 °C -25°C ~ 70 °C 20% ~ 85% RH 90% RH or Less CIENT 100ppm/°C 200ppm/°C	0.1%±2digits 0.1%±7digits	0.1%±2digits			
Voltage Current ENVIRONMENT CONDITION Operation Temp Storage Temp Operating Humidity Storage Humidity READ BACK TEMP WEFFIC Voltage Current OTHER	Activated by elecat CCURACY 0.19\pmu 2 digits 0.19\pmu 4 digits ON 0\pmu \cdot 50 \pmu \cdot 25\pmu \cdot 70 \pmu 20\pmu \cdot 85\pmu RH 90\pmu RH or Less EIENT 100ppm/\pm/\pmu 200ppm/\pmu \cdot 200ppm/\pmu C Yes USB/LAN/GPIB(C	0.1%±2digits 0.1%±7digits	0.1%±2digits			
Voltage Current ENVIRONMENT CONDITION Operation Temp Storage Temp Operating Humidity Storage Humidity READ BACK TEMP WEFFIC Voltage Current OTHER Analog Control Interface Fan	Activated by elecat CCURACY 0.1%±2digits 0.1%±4digits ON 0°C ~ 50 °C -25°C ~ 70 °C 20% ~ 85% RH 90% RH or Less IENT 100ppm/°C 200ppm/°C Yes USB/LAN/GPIB(C With thermal sens	0.1%±2digits 0.1%±7digits Option) ing control	0.1%±2digits			
Voltage Current ENVIRONMENT CONDITION Operation Temp Storage Temp Operating Humidity Storage Humidity READ BACK TEMP WEFFIC Voltage Current OTHER Analog Control Interface	Activated by elecat CCURACY 0.1%±2digits 0.1%±4digits ON 0°C ~ 50 °C -25°C ~ 70 °C 20% ~ 85% RH 90% RH or Less IENT 100ppm/°C 200ppm/°C Yes USB/LAN/GPIB(C With thermal sens	0.1%±2digits 0.1%±7digits	0.1%±2digits			
Voltage Current ENVIRONMENT CONDITION Operation Temp Storage Temp Operating Humidity Storage Humidity Storage Humidity READ BACK TEMP WEFFIC Voltage Current OTHER Analog Control Interface Fan POWER SOURCE DIMENSIONS	Activated by elecat CCURACY 0.1%±2digits 0.1%±4digits ON 0°C ~ 50 °C -25°C ~ 70 °C 20% ~ 85% RH 90% RH or Less EIENT 100ppm/°C 200ppm/°C Yes USB/LAN/GPIB(C With thermal sens 85VAC-265VAC, 5 71 (W)x124(H)	O.1%±2digits O.1%±7digits O.1%ton) Option) ing control O/60Hz, single phase 142.5(W)x124(H)	0.1%±2digits 0.1%±1digits	0.1%±2digits 71 (W)x124 (H)	0.1%±4digits	0.1%±5digits
Voltage Current ENVIRONMENT CONDITION Operation Temp Storage Temp Operating Humidity Storage Humidity READ BACK TEMP WEFFIC Voltage Current OTHER Analog Control Interface Fan POWER SOURCE	Activated by elecat CCURACY 0.19%±2digits 0.1196±4digits ON 0°C ~ 50°C -25°C ~ 70°C 20% ~ 85% RH 90% RH or Less IENT 100ppm/°C 200ppm/°C Yes USB/LAN/GPIB(C With thermal sens 85VAC-265VAC, 5	0.1%±2digits 0.1%±7digits Option) ing control 0/60Hz, single phase	0.1%±2digits 0.1%±1digits	0.1%±2digits	0.1%±4digits	0.1%±5digits

Specifications subject to change without notice.

ORDERING INFORMATION

IPS 30-36 (0~30V/0~36A/360W) Multi-Range DC Power Supply (0~30V/0~72A/720W) Multi-Range DC Power Supply IPS 30-72 IPS 30-108 (0~30V/0~108A/1080W) Multi-Range DC Power Supply IPS 80-13.5 (0~80V/0~13.5A/360W) Multi-Range DC Power Supply (0~80V/0~27A/720W) Multi-Range DC Power Supply IPS 80-27 IPS 80-40.5 (0~80V/0~40.5A/1080W) Multi-Range DC Power Supply

User Manual x 1, CD-ROM x 1 (Programmable User Manual), GTL-123 Test Lead x 1, Power Cord x 1 (Region dependent), GTL-240 USB Cable " L " Type x 1, PSW-004 Basic Accessories Kit x 1

 $Includes: M4\ Terminal\ screws\ and\ washers\ x\ 2,\ Air\ Filter\ x\ 1,\ Analog\ control\ protection\ dummy\ x\ 1,\ Analog\ control\ lock\ lever\ x\ 1,\ M8\ terminal\ bolts,\ nuts\ and\ washers\ x\ 2,\ Analog\ control\ protection\ dummy\ x\ 1,\ Analog\ control\ protection\ dummy\ noalog\ control\ protection\ dummy\ noalog\ control\ protection\ dummy\ noalog\ contro$

OPTIONAL ACCESSORIES

PSW-001 Accessory Kit
PSW-002 Simple IDC Tool
PSW-003 Contact Removal Tool
PSW-005 Cantact Removal Tool
PSW-005 Cable for 2 Units of IPS-Series in Series Mode Connection
PSW-006 Cable for 2 Units of IPS-Series in Parallel Mode Connection
PSW-007 Cable for 3 Units of IPS-Series in Parallel Mode Connection

GUG-001 GPIB to USB Adaptor GRA-410-J Rack Mount Kit (JIS)
GRA-410-E Rack Mount Kit (EIA)
GET-001 Extended Terminal (MAX. 40A)



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