

PSW Instrument Power Supply Series

PSW-2-F Power Supply



www.intech.co.nz/psw-2-f

Features:

- Fixed Power Supply 24Vdc.
- Output Current of 200mA.
- Powers up to 10x 4~20mA 2-wire loops.
- Better than most comparable linear supplies.
- Overload protection.
- Low noise.
- High accuracy 2%.
- Precision regulation.
- Isolated output floats close to earth potential.
- Short circuit tolerant.
- Compact DIN rail mount enclosure.
- Low cost.

PSW-2 Power Supply

**PSW-2
200mA**



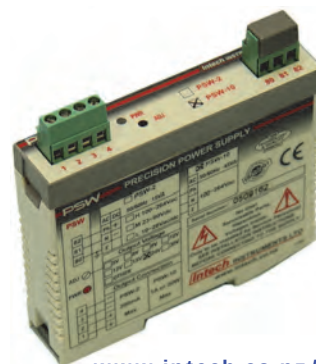
www.intech.co.nz/psw-2

Features:

- Better than most comparable linear supplies
- Output adjustable from 5V to 30V
- Output current of 200mA
- Low noise
- Precision regulation
- Isolated output floats close to earth potential
- Short circuit tolerant
- High accuracy 0.1%
- Universal AC/DC power supply
- Compact DIN rail mount enclosure
- Available standard or special calibration
- Low cost

PSW-10 Power Supply

**PSW-10
1A**



www.intech.co.nz/psw-10

Features:

- Better than most comparable linear supplies
- Output adjustable from 5V to 30V
- Output current of 1A
- Low noise
- Precision regulation
- Isolated output floats close to earth potential
- Short circuit tolerant
- High accuracy 0.1%
- Universal AC/DC power supply
- Compact DIN rail mount enclosure
- Available standard or special calibration
- Low cost

Diagrams for PSW-2 Power Supplies

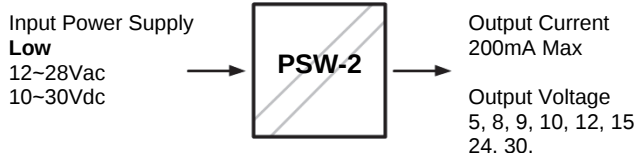
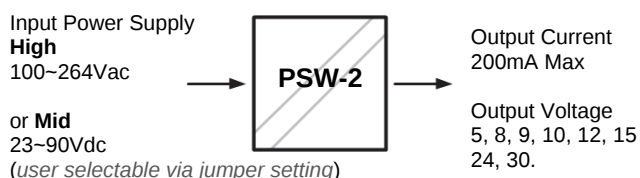
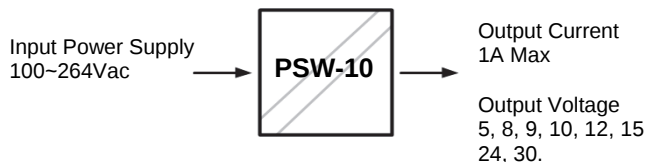


Diagram for PSW-10 Power Supplies



PSW Instrument Power Supply Series

PSW-2 Power Supply

PSW-2 Specifications

Input Voltage Supply	PSW-2-H	100-264Vac.
	PSW-2-M	23-90Vdc.
	PSW-2-L	12-Vac / 10-30Vdc.
Output Voltage		5-30Vdc.
Output Current	PSW-2	200mA Max, unless specified otherwise. (See Below)
	PSW-2-H	5-15Vdc Output: 300mA Max.
	PSW-2-M	5-9Vdc Output: 300mA Max.
	PSW-2-L	5-9Vdc Output: 300mA Max.
Output Ripple	PSW-2-H	8mVrms / 25mVpp Max.
	PSW-2-M	0.3Vrms / 10mVpp Max.
	PSW-2-L, AC	50mVrms / 120mVpp Max.
	PSW-2-L, DC	0.6mVrms / 20mVpp Max.
Load Regulation		<0.1%.
Line Regulation		<0.1%.
Short Circuit Tolerance	PSW-2-H	Indefinite.
	PSW-2-M	Indefinite.
	PSW-2-L	1 minute.
Max Output Floats Above Earth		2.5Vrms.
EMC Emissions Compliance		EN 55022-A
EMC Immunity Compliance		EN 50082-1
Safety Compliance		EN 60950
Mains Isolation		250Vac.
Isolation Test Voltage	Mains to Output:	3000Vac, 50Hz for 1 min.
	Mains to Earth:	1500Vac, 50Hz for 1 min.
Ambient Drift		$\leq \pm 0.01\%/^{\circ}\text{C}$ FSO typical.
R.F. Immunity		< 1% Effect FSO typical.
Operating Temperature		0-60°C.
Storage Temperature		-20-80°C.
Operating Humidity		5-85% RH max.
Mounting		35mm symmetrical DIN rail
Dimensions		100 x 100 x 22.5mm (HxWxD)
Weight		135g, Includes Packaging.

Ordering Information

PSW-2-X

Standard Unit: High Voltage Power Supply: 100-264Vac.

Output Voltage: 24Vdc.

PSW-2- ☐ - ☐
V PS

OUTPUT RANGES	
Output voltages	V
5	5
8	8
9	9
10	10
12	12
15	15
24	24
30	30

Input Power Supply	PS
High Voltage Power Supply: 100-264Vac	H
Mid Voltage Power Supply: 23-90Vdc	M
Low Voltage Power Supply: 12-28Vdc / 10-30Vdc	L

Note 1: The PSW-2-X is field selectable for 'H' or 'M' Power supply.

Note 2: Power supply 'H' is field selectable for 'M', and 'M' for 'H'. Power supply 'L' must be ordered separately.

Product Liability. This information describes our products. It does not constitute guaranteed properties and is not intended to affirm the suitability of a product for a particular application. Due to ongoing research and development, designs, specifications, and documentation are subject to change without notification. Regrettably, omissions and exceptions cannot be completely ruled out. No liability will be accepted for errors, omissions or amendments to this specification. Technical data are always specified by their average values and are based on Standard Calibration Units, unless otherwise specified. Each product is subject to the 'Conditions of Sale'.

Warning: These products are not designed for use in, and should not be used for patient connected applications. In any critical installation an independent fail-safe back-up system must always be implemented.

Quality Assurance Programme. The modern technology and strict procedures of the ISO9001 Quality Assurance Programme applied during design, development, production and final inspection grant long term reliability of the instrument. This instrument has been designed and built to comply with EMC and Safety Standards requirements.

PSW-2-F Power Supply

PSW-2-F SPECIFICATIONS.

Input voltage supply	85-265Vac/dc
Output voltage	24Vdc
Output current	200mA max
Output ripple	4mV rms/25mVpp max
Load regulation	< 0.1%
Line regulation	< 0.1%
Short circuit tolerance	Indefinite
Compliance	
EMC Emissions	EN55022-A
EMC Immunity	EN50082-1
Safety	EN60950
Mains isolation	250Vac
Isolation test voltages	
Mains to output	3000Vac, 50Hz
Mains to earth	1500Vac, 50Hz
Ambient drift	$\leq \pm 0.01\%/^{\circ}\text{C}$ FSO typical
RF immunity	< 1% effect FSO typical
Operating temperature	0-60°C
Storage temperature	-20-80°C
Operating humidity	5-85% RH max
Mounting	35mm symmetrical DIN rail
Dimensions	79x 68 x 30mm (HxWxD)

PSW-10 Power Supply

PSW-10 Specifications

Input Voltage Supply	100-264Vac.
Output Voltage	5-30Vdc.
Output Current	230Vac Supply: 1A Max.
	<150Vac Supply: 20W / 1A Max. Note: For input supplies LESS THAN 150Vac, the maximum output power is 20W. E.g. at 150Vac Supply, 24Vdc Output, Current = 800mA.
Output Ripple	2mVrms / 20mVpp Max.
Load Regulation	<0.1%.
Line Regulation	<0.1%.
Short Circuit Tolerance	Indefinite.
Max Output Floats Above Earth	2.0Vrms.
EMC Emissions Compliance	EN 55022-A
EMC Immunity Compliance	EN 50082-1
Safety Compliance	EN 60950
Mains Isolation	250Vac.
Isolation Test Voltage	Mains to Output: 3000Vac, 50Hz for 1 min.
	Mains to Earth: 1500Vac, 50Hz for 1 min.
Ambient Drift	$\leq \pm 0.01\%/^{\circ}\text{C}$ FSO typical.
R.F. Immunity	< 1% Effect FSO typical.
Operating Temperature	0-60°C.
Storage Temperature	-20-80°C.
Operating Humidity	5-85% RH max.
Mounting	35mm symmetrical DIN rail
Dimensions	100 x 100 x 22.5mm (HxWxD)
Weight	170g, Includes Packaging.

Ordering Information

PSW-10-X

Standard Unit: High Voltage Power Supply: 100-264Vac.

Output Voltage: 24Vdc.

PSW-10- ☐
V

OUTPUT RANGES	
Output voltages	V
5	5
8	8
9	9
10	10
12	12
15	15
24	24
30	30