

PSW-Multi Series

PSW-Multi Series Two-channel/Three-channel Programmable Switching DC Power Supply

FEATURES

- Multi-channel: Maximum 720W for Two-channel Module and Maximum 1080W for Three-channel Module; Output Latency Between Channels with the Same Voltage Model is Less Than 0.1ms
- Multiple Voltage Combinations: Low Voltage Combinations Can be Selected From 30V/40V/80V/160V; High Voltage Combinations Can be Selected From 250V/800V
- Advanced Web Server: Executes SCPI Commands; Web Controls Through Server; Data Log; Edit Sequence
- CC/CV Priority Mode Selection is Ideal for Battery and LED Industries
- Adjustable Rising and Falling Slew Rate
- 720W/1080W Adopt 1/3, 1/2 Rack Mount Frame Designs (Standard EIA/JIS)
- Standard Communications Interfaces: LAN, USB, External Analog Remote Control Terminal
- Optional Communications Interfaces: GPIB-USB Adapter, RS232-USB Cable
- Support LabVIEW Driver



Second to None, Dominating Mid/Low Power Ranges

PSW-Multi Series is a two-channel or three-channel wide range output programmable switching DC power supply. The maximum output power can reach 1080W. There are 13 two-channel models with a rated power of 720W, and 24 three-channel models with a rated power of 1080W. The rated voltages of low voltage modules are 30V, 40V, 80V, 160V. The rated voltages of high voltage modules are 250V and 800V.

The CV/CC priority selection of the PSW-Multi Series is a very useful feature for DUT protection. The conventional power supply normally operates under CV mode when the power output is turned on. This could bring a high inrush current to the capacitive load or current-intensive load at the power output-on stage. Taking the I-V curve verification of LED as an example, it becomes a very challenging task to perform this measurement using a conventional power supply.

With LED connected to a power supply under CV mode as the initial setting, when the power output is turned on and the voltage rises to the LED forward voltage, the current will suddenly peak up and exceed the preset value of current limit. Upon detecting this high current, the power supply starts the transition from CV mode to CC mode. Though the current becomes stable after the CC mode being activated, the current spike occurred at the CV and CC crossover point may possibly damage the DUT. At the power output-on stage, the PSW-Multi Series is able to operate under CC priority to limit the current spike occurred at the threshold voltage and therefore protects DUT from the inrush current damage.

The adjustable slew rate of the PSW-Multi Series allows users to set for either output voltage or output current, a specific rise time from low to high level transition, and a specific fall time from high to low level transition. This facilitates the characteristic verification of a DUT during voltage or current level changes with controllable slew rates. Most manufacturing tests of lighting device or large capacitor during power output-on are associated with the occurrence of high surge current, which can greatly reduce the life time of the DUT. To prevent inrush current from damaging current-intensive devices, a smooth and slow voltage transition during power On-Off can significantly reduce the pike current and protect the device from high current damage.

The OVP and OCP are provided with the PSW-Multi Series. Both OVP and OCP levels can be selected, with default level set at 110%, of the rated voltage/current of the power supply. When any of the protection levels is tripped, the power output will be switched off to protect the DUT. The PSW-Multi Series provides USB Host/Device and LAN interfaces as standard, GPIB-USB adapter and RS232-USB cable as optional. The LabVIEW driver and the Data Logging PC software are supported on all the available interfaces. An analog control/monitoring connector is also available on the rear panel for external control of power On/Off and external monitoring of power output Voltage and Current.

THE SPECIAL FUNCTIONS ARE AS FOLLOWS



The advanced web server, a unique function of the PSW-Multi Series, can directly execute SCPI commands through the browser and control the PSW-Multi Series power supply. The data log has an interval of 1 second. It can edit output sequence. Wide-range output: Provides a wide range of voltage/current outputs under the same rated power. One power supply has the total capability of multiple power supplies. Bleed Circuit: Accelerates the voltage fall time. Sequence: Saves the output sequence in a USB flash drive to directly control the power supply to execute the automatic test sequence. The CV/CC priority mode of PSW-Multi Series is a very useful feature for protecting the DUT. Conventional power supplies usually operate in CV mode when outputting. During power output, capacitive loads or current-intensive loads can cause inrush currents. Taking the I-V verification curve of an LED as an example, it would be challenging to measure it using a conventional power supply. In the initial state, a conventional power supply operates in CV mode. When the output voltage exceeds the forward voltage of the LED, the current will instantaneously flow, surpassing the default current limit value. Even when the current becomes stable after switching to CC mode, the crossover point between CV and CC can still potentially damage the DUT. However, the PSW-Multi Series is capable of operating in CC mode during power output to suppress inrush currents and prevent damage to the DUT when the voltage instantaneously conducts. Adjustable slew rate allows users to set the rise and fall times of voltage or current. By controlling the slew rate settings, it becomes convenient to verify the DUT under varying voltage or current conditions. In manufacturing tests for lighting devices or large capacitors, power output often generates significant inrush currents, which can greatly reduce the lifespan of the DUT. To prevent damage caused by inrush currents, a slow voltage output significantly reduces the harm caused by inrush currents, thereby achieving device protection. The OVP and OCP functions provided by the PSW-Multi Series can be self-defined and the default value is 110% of the rated value. When the protection setting is triggered, the output will be turned off to protect the DUT. USB and LAN are standard communications interfaces of PSW-Multi Series, while GPIB-USB and RS232-USB are optional accessories. All interfaces support LabVIEW driver and Data Logging PC software.

PANEL INTRODUCTION



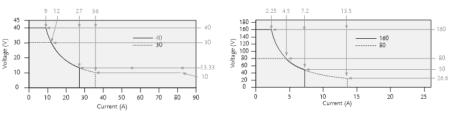
THE TWO-CHANNEL MODELS ARE AS FOLLOWS

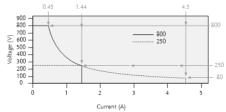
MODEL	СН1	CH2	SIZE
PSW-720L11	30.00V	30.00V	1/3 Rack 3U
PSW-720L12	30.00V	40.00V	1/3 Rack 3U
PSW-720L14	30.00V	80.00V	1/3 Rack 3U
PSW-720L15	30.00V	160.0V	1/3 Rack 3U
PSW-720L22	40.00V	40.00V	1/3 Rack 3U
PSW-720L24	40.00V	80.00V	1/3 Rack 3U
PSW-720L25	40.00V	160.0V	1/3 Rack 3U
PSW-720L44	80.00V	80.00V	1/3 Rack 3U
PSW-720L45	80.00V	160.0V	1/3 Rack 3U
PSW-720L55	160.0V	160.0V	1/3 Rack 3U
PSW-720H66	250.0V	250.0V	1/3 Rack 3U
PSW-720H68	250.0V	800.0V	1/3 Rack 3U
PSW-720H88	250.0V	800.0V	1/3 Rack 3U

THREE-CHANNEL MODELS ARE AS FOLLOWS

MODEL	CH1	CH2	CH3	SIZE
PSW-1080L111	30.00V	30.00V	30.00V	1/2 Rack 3U
PSW-1080L112	30.00V	30.00V	40.00V	1/2 Rack 3U
PSW-1080L114	30.00V	30.00V	80.00V	1/2 Rack 3U
PSW-1080L115	30.00V	30.00V	160.0V	1/2 Rack 3U
PSW-1080L122	30.00V	40.00V	40.00V	1/2 Rack 3U
PSW-1080L124	30.00V	40.00V	80.00V	1/2 Rack 3U
PSW-1080L125	30.00V	40.00V	160.0V	1/2 Rack 3U
PSW-1080L144	30.00V	80.00V	80.00V	1/2 Rack 3U
PSW-1080L145	30.00V	80.00V	160.0V	1/2 Rack 3U
PSW-1080L155	30.00V	160.0V	160.0V	1/2 Rack 3U
PSW-1080L222	40.00V	40.00V	40.00V	1/2 Rack 3U
PSW-1080L224	40.00V	40.00V	80.00V	1/2 Rack 3U
PSW-1080L225	40.00V	40.00V	160.0V	1/2 Rack 3U
PSW-1080L244	40.00V	80.00V	80.00V	1/2 Rack 3U
PSW-1080L245	40.00V	80.00V	160.0V	1/2 Rack 3U
PSW-1080L255	40.00V	160.0V	160.0V	1/2 Rack 3U
PSW-1080L444	80.00V	80.00V	80.0V	1/2 Rack 3U
PSW-1080L445	80.00V	80.00V	160.0V	1/2 Rack 3U
PSW-1080L455	80.00V	160.0V	160.0V	1/2 Rack 3U
PSW-1080L555	160.0V	160.0V	160.0V	1/2 Rack 3U
PSW-1080H666	250.0V	250.0V	250.0V	1/2 Rack 3U
PSW-1080H668	250.0V	250.0V	800.0V	1/2 Rack 3U
PSW-1080H888	800.0V	800.0V	800.0V	1/2 Rack 3U

. MULTI-RANGE OPERATION





PSW 30V/40V Series Operating Area

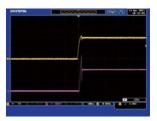
PSW 80V/160V Series Operating Area

PSW 250V/800V Series Operating Area

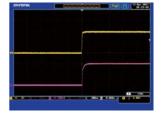
When the power supply is configured that the total output (Current x Voltage output) is less than the rated power output, it functions as a typical Constant Current (CC) and Constant Voltage (CV) power supply.

However, when the power supply is configured such that the total output power (Current x Voltage Output) exceeds the rated power output, the effective output is actually limited to the operation area of the unit.

B. CV / CC PRIORITY SELECTION

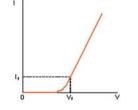


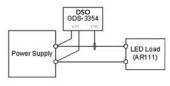
The Inrush Current and Surge Voltage occur at LED Forward Voltage(Vf)Under C.V Priority



The CC Priority Feature Effectively Limits the Occurrence of Inrush Current and Surge Voltage when the Supplied Voltage Rises to the LED Forward Voltage

The PSW-Multi Series provides CC Mode and CV Mode to fit various applications in the general purpose market. To get into critical application niches, however, the power supply needs to provide



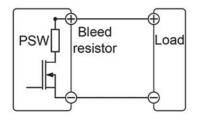


V-I Characteristic of Diode

Using GDS-3354 DSO to Test LED Operation Under CV Priority and CC Priority Respectively

advanced features to meet the specific requirements. The CC and CV Priority Selection enable the power supply to run under CC priority, rather than normal CV priority, at the output-on stage.

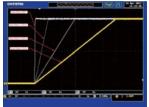
D. BLEEDER CONTROL



PSW-Multi Series Built-in Bleed Resistor

The PSW-Multi Series employs a bleed resistor in parallel with the output terminal. Bleed resistor is designed to dissipatch the power from the power supply filter capacitors when power is turned off and the load is disconnected. Without a bleed resistor, power terminal may remain charged on the filter capacitors for some time and be potentially hazardous. In addition, bleed resistor also allows for smoother voltage regulation of the power supply as the bleed resistor acts as a minimum voltage load. The bleed resistance can be turned on or off using the configuration setting.

C. ADJUSTABLE SLEW RATE



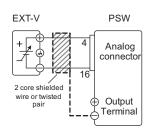




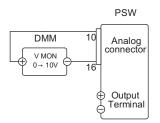
The Adjustable Rise Time of the PSW 800V Module

The PSW-Multi Series has adjustable slew rates for the level transition of both Current and Voltage. This gives the PSW-Multi Series power supply the ability to set specific rise time and fall time of the Voltage and Current drawn from the power supply to verify DUT performance during the Voltage/Current level transition. The feature also provides the benefit to slow down the voltage transition at the power output-on to protect DUT from inrush current damage. This is especially useful for the test of heavycurrent-drawn devices like capacitors.

E. EXTERNAL ANALOG REMOTE CONTROL



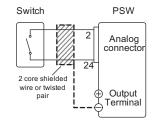
External Voltage Control of the Voltage Output



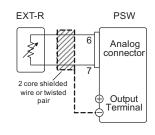
External DMM Monitoring of the Output Voltage

Switch PSW Analog connector 2 core shielded wire or twisted pair Output Terminal

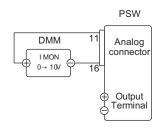
External Switch Control of the Main Power Shut-down



External Switch Control of the Output On/Off



External Resistance control of the Voltage Output



External DMM Monitoring of the Output Current

On the rear panel of the PSW-Multi Series power supply, a 26-pin Analog Control connector is available to perform lots of remote control and monitoring functions. The output voltage and current can be set using external voltage or resistance. The power supply output on/off and main power shut-down can also be controlled using external switches. This Analog Control Connector is complied with the Mil 26 pin connector (OMRON XG4 IDC plug) standard.

VARIOUS INTERFACES SUPPORT & EXTENDED TERMINAL BOX



The PSW-Multi Series provides USB Host port in the front panel for easy access of stored data, such as test script program. In the rear panel, a USB Device port is available for remote control or I & V data logging of power output through a PC controller. The LAN interface, which meets DHCP standard, is provided as a standard feature of the PSW-Multi Series for system communications and ATE applications.

An Extender Terminal box (P/N: GET-001/GET-002/GET-005) is provided as optional accessory to extend the power output form the rear panel to the front side. This extender terminal gives R&D or QC engineers convenience to do the jobs without frequently reaching the output terminal at the rear side of the PSW-Multi Series.





Rack Mount Kit GRA-410-E (EIA)

6x PSW models, 3x PSW-720 models, 2x PSW-1080 models or a combination of all models (1x PSW, 1x PSW-720 and 1x PSW-1080).



Rack Mount Kit GRA-410-J (JIS)

The PSW-Multi Series has an optional Rack Mount Kit (GW Instek part number: [JIS] GRA-410-J, [EIA] GRA-410-E[EIA]) that can be used to hold

OPTIONAL ASSESSORIES

PSW-001	PSW-002	PSW-003	PSW-004	GUG-001	GUR-001A
		0			
PSW-008	PSW-009	PSW-010	PSW-011	PSW-012	GTL-130
					\bigcirc
	GET-001		GET-002	GET-005	
	GE1-001	-C	JE1-002	GEI-005	
1				••••	

CRECIFICATIONS								
SPECIFICATIONS Module Type			1	2	4	5	6	8
H/L Voltage Classicfication		-	L	L	L	L	н	н
Rated output voltage		V	30	40	80	160	250	800
Rated output current		A	36	27	13.5	7.2	4.5	1.44
Rated output power		W	360	360	360	360	360	360
Power ratio		-	3	3	3	3.2	3.125	3.2
Constant Voltage Mode			30-36	40-27	80-13.5	160-7.2	250-4.5	800-1.44
Line regulation (*1)		mV	18	23	43	83	128	403
Load regulation (*2)		mV	20	25 60	45	85	130	405
Ripple and noise (*3)	p-p (*4) r.m.s. (*5)	mV mV	60	60	60	60 12	80	150 30
Temperature coefficient	(.m.s. (^o)	ppm/°C			fter a 30 minute warm		13	30
Remote snese compensation voltage (single wire)		V V	0.6	0.6	0.6	0.6	1	1
Rise time (*6)	Rated load	ms	50	50	50	100	100	150
	No load	ms	50	50	50	100	100	150
Fall time (*7)	Rated load	ms	50	50	50	100	150	300
	No load	ms	500	500	500	1000	1200	2000
Transient response time (*8)		ms	1	1	1	2	2	2
Constant Current Mode			30-36	40-27	80-13.5	160-7.2	250-4.5	800-1.44
Line regulation (*1)		mA	41	32	18.5	12.2	9.5	6.44
Load regulation (*9)		mA	41 72	32	18.5	12.2	9.5	6.44
Ripple and noise Temperature coefficient	r.m.s.	mA		54	27 fter a 30 minute warm	15	10	5
Protection Function	_	ppm/℃	30-36	40-27	80-13.5	160-7.2	250-4.5	800-1.44
Over voltage protection (OVP)	Setting range	V	3-33	4-44	8-88	16-176	20-275	20-880
	Setting accuracy		± (2% of rated or				1	
Over current protection (OCP)	Setting range	A	3.6-39.6	2.7-29.7	1.35-14.85	0.72-7.92	0.45-4.95	0.144-1.584
	Setting accuracy	1	± (2% of rated or		•	•	•	•
Over temperature protection (OTP)	Operation		Turn the output					
Low AC input protection (AC-FAIL)	Operation		Turn the output					
Power limit (POWER LIMIT)	Operation	<u> </u>	Over power limit					
	Value (fixed)			rated output power				
Analog Programming and Monitoring	at 22 °C + 5 °C		30-36	40-27 earity: ±0.5% of rated	80-13.5	160-7.2	250-4.5	800-1.44
External voltage control output voltage	at 23 °C ± 5 °C			earity: ±0.5% of rated o	1 0			
External voltage control output current External resistor control output voltage	at 23 °C ± 5 °C at 23 °C ± 5 °C	+	,	earity: ±1% of rated o earity: ±1.5% of rated				
External resistor control output voltage	at 23 °C ± 5 °C			earity: ±1.5% of rated				
Output voltage monitor	at 23 °C ± 5 °C		Accuracy: ±1%		output currents		Accuracy: ±2%	
Output current monitor	at 23 °C ± 5 °C		Accuracy: ±1%				Accuracy: ±2%	
Shutdown control	_		Turns the output	off with a LOW (0V t	o 0.5V) or short-circui	it		
Output on/off control			Possible logic se	ections:				
CV/CC/ALM/PWR ON/OUT ON indicator			Photocoupler op	en collector output; N	Aaximum voltage 30V,	, maximum sink curre	ent 8mA.	
Front Panel			30-36	40-27	80-13.5	160-7.2	250-4.5	800-1.44
Display, 4 digits Voltage accuracy	at 23 °C ± 5 °C; ± (0.1% +	mV	20	20	20	100	200	400
Current accuracy	at 23 °C ± 5 °C; ± (0.1% +	mA	40	30	20	5	5	2
Indications			RED LED's: C	V, CC, VSR, ISR, DLY	, RMT, 20, 40, 60, 80,	100, %W, W, V, A		
Puttonc				CD Set Test Lock/I	and DW/R DSRL Out			
Buttons Knobs			Voltage, Current	ver, sei, Test, Lock/l	.ocal, PWR DSPL, Out	ри		
USB port			Type A USB conr	ector				
Programming and Measurement (USB, LAN, GPIB)			30-36	40-27	80-13.5	160-7.2	250-4.5	800-1.44
Output voltage programming accuracy	at 23 °C ± 5 °C; ± (0.1% +	mV	10	10	10	100	200	400
Output current programming accuracy	at 23 °C ± 5 °C; ± (0.1% +	mA	30	20	10	5	5	2
Output voltage programming resolution		mV	1	1	2	3	5	14
Output current programming resolution		mA	1	1	1	1	1	1
Output voltage measurement accuracy	at 23 °C ± 5 °C; ± (0.1% +	mV	10	10	10	100	200	400
Output current measurement accuracy	at 23 °C ± 5 °C; ± (0.1% +	mA	30	20	10	5	5	2
Output voltage measurement resolution		mV	1	1	2	3	5	14
Output current measurement resolution		mA	1	1	1	1	1	1
nput Characteristics			30-36	40-27	80-13.5	160-7.2	250-4.5	800-1.44
Efficiency	100Vac	%	77	78	78	79	79	80
	200Vac	%	79	80	80	81	81	82
Input Characteristics			100Vac to 240Va	Dual Channel c, 50Hz to 60Hz, sing	zle phase		Triple Channel	
Norminal input rating Input voltage range			85Vac ~ 265Vac	c, 30112 to overz, sing	Sie pilase			
Input voitage range Input frequency range	+	-	47Hz ~ 63Hz					
Maximum input current	100Vac	A		10		1	15	
·	200Vac	A		5		l	7.5	
Inrush current				Less than 50A			Less than 75A	
Maximum input power		VA		1000			1500	
Power factor	100Vac		0.99					
	200Vac	<u> </u>	0.97	1	-		1	
Efficiency	100Vac	%	77	78	78	79	79	80
Hold up time	200Vac	%	79 20ms or greater	80	80	81	81	82
Hold-up time nterface Capabilities			20ms or greater	Dual Channel			Triple Channel	
USB			TypeA: Host Type		/2.0, USB Class: CDC	Communications Dr		
LAN		-			Password, Gateway IP			Лаsk
GPIB	-	1		01 (GPIB to USB Ada		-,	, outret 1	
Environmental Conditions				Dual Channel			Triple Channel	
Operaing temperature			0°C to 50°C					
Storage temperature			-25 °C to 70 °C					
Operating humidity				No condensation				
Storage humidity			90% RH or less;					
Altitude			Maximum 2000n					
General Specifications				Dual Channel			Triple Channel	
Weight	main unit only	kg		Approx. 5.4kg			Approx. 7.7kg	
Dimensions Cooling	(W×H×D)	mm						
EMC	+		Forced air cooling by internal fan Complies with the European EMC directive 2004/108/EC for Class A test and measurement products					
Safety		-			age Directive 2006/95,			
Withstand voltage	Between input and chassis	1		at 1500 Vac for 1 m				
~	Between input and output	1	No abnormalities at 3000 Vac for 1 minute					
						3 (0) (
	Between output and chassis	s		s at 500 Vdc for 1 mir				
Insulation resistance		s	No abnormalities	s at 1500 Vdc for 1 m	nute for 30V, 40V, 80V, inute for 250V, 800V n			
Insulation resistance	Between input and chassis	s	No abnormalitie 500 Vdc, 100 MG	s at 1500 Vdc for 1 m 2 or more				
Insulation resistance	Between input and chassis Between input and output		No abnormalities 500 Vdc, 100 MΩ 500 Vdc, 100 MΩ	s at 1500 Vdc for 1 m 2 or more 2 or more		nodels		
Insulation resistance	Between input and chassis		No abnormalities 500 Vdc, 100 MG 500 Vdc, 100 MG 500 Vdc, 100 MG	s at 1500 Vdc for 1 m 2 or more 2 or more	inute for 250V, 800V n V, 80V, 160V and 250V	nodels		

Notes:

*1: At 85 ~ 132Vac or 170 ~ 265Vac, constant load.

- *2: From No-load to Full-load, constant input voltage. Measured at the sensing point in Remote Sense.
- *3: Measure with JEITA RC-9131B (1:1) probe
- *4: Measurement frequency bandwidth is 10Hz to 20MHz.
- \pm 5: Measurement frequency bandwidth is 5Hz to 1MHz.

ORDERING INFORMATION

Dual Channel Model

l	Dual Channel	Model
	PSW-720L11	30V/36A*2 720W Multi-Range D.C. Power supply
	PSW-720L12	30V/36A*1 40V/27A*1 720W Multi-Range D.C. Power supply
	PSW-720L14	30V/36A*1 80V/13.5A*1 720W Multi-Range D.C. Power supply
	PSW-720L15	30V/36A*1 160V/7.2A*1 720W Multi-Range D.C. Power supply
	PSW-720L22	40V/27A*2 720W Multi-Range D.C. Power supply
	PSW-720L24	40V/27A*1 80V/13.5A*1 720W Multi-Range D.C. Power supply
	PSW-720L25	40V/27A*1 160V/7.2A*1 720W Multi-Range D.C. Power supply
	PSW-720L44	80V/13.5A*2 720W Multi-Range D.C. Power supply
	PSW-720L45	80V/13.5A*1 160V/7.2A*1 720W Multi-Range D.C. Power supply
	PSW-720L55	160V/7.2A*2 720W Multi-Range D.C. Power supply
	PSW-720H66	250V/4.5A*2 720W Multi-Range D.C. Power supply
	PSW-720H68	250V/4.5A*1 800V/1.44A*1 720W Multi-Range D.C. Power supply
	PSW-720H88	800V/1.44A*2 720W Multi-Range D.C. Power supply
	Triple Channe	l Model
	PSW-1080L111	30V/36A*3 1080W Multi-Range D.C. Power supply
	PSW-1080L112	30V/36A*2 40V/27A*1 1080W Multi-Range D.C. Power supply
	PSW-1080L114	30V/36A*2 80V/13.5A*1 1080W Multi-Range D.C. Power supply
	PSW-1080L115	30V/36A*2 160V/7.2A*1 1080W Multi-Range D.C. Power supply
	PSW-1080L122	30V/36A*1 40V/27A*2 1080W Multi-Range D.C. Power supply
	PSW-1080L124	30V/36A*1 40V/27A*1 80V/13.5A*1 1080W Multi-Range D.C. Power supply
	PSW-1080L125	30V/36A*1 40V/27A*1 160V/7.2A 1080W Multi-Range D.C. Power supply
	PSW-1080L144	30V/36A*1 80V/13.5A*2 1080W Multi-Range D.C. Power supply
	PSW-1080L145	30V/36A*1 80V/13.5A*1 160V/7.2A*1 1080W Multi-Range D.C. Power supply
	PSW-1080L155	30V/36A*1 160V/7.2A*2 1080W Multi-Range D.C. Power supply
	PSW-1080L222	40V/27A*3 1080W Multi-Range D.C. Power supply
	PSW-1080L224	40V/27A*2 80V/13.5A*1 1080W Multi-Range D.C. Power supply
	PSW-1080L225	40V/27A*2 160V/7.2A*1 1080W Multi-Range D.C. Power supply
	PSW-1080L244	40V/27A*1 80V/13.5A*2 1080W Multi-Range D.C. Power supply
	PSW-1080L245	40V/27A*1 80V/13.5A*1 160V/7.2A*1 1080W Multi-Range D.C. Power supply
	PSW-1080L255	40V/27A*1 160V/7.2A*2 1080W Multi-Range D.C. Power supply
	PSW-1080L444	80V/13.5A*3 1080W Multi-Range D.C. Power supply
	PSW-1080L445	80V/13.5A*2 160V/7.2A*1 1080W Multi-Range D.C. Power supply
	PSW-1080L455	80V/13.5A*1 160V/7.2A*2 1080W Multi-Range D.C. Power supply
	PSW-1080L555	160V/7.2A*3 1080W Multi-Range D.C. Power supply
	PSW-1080H666	250V/4.5A*3 1080W Multi-Range D.C. Power supply
	PSW-1080H668	250V/4.5A*2 800V/1.44A*1 1080W Multi-Range D.C. Power supply
	PSW-1080H688	250V/4.5A*1 800V/1.44A*2 1080W Multi-Range D.C. Power supply
	PSW-1080H688	800V/1.44A*3 1080W Multi-Range D.C. Power supply
L	A C	· · · · · · · · · · · · · · · · · · ·

Apart from the differences in output type, each unit differs at output channels and voltage. The PSW-720 is two channel output and PSW-1080 is three channel output.

- *6: From 10% to 90% of rated output voltage, with rated resistive load.
- *7: From 90% to 10% of rated output voltage, with rated resistive load.
- *8: Time for output voltage to recover within 0.1% + 10mV of its rated output for a load change from 50 to 100% of its rated output current.
- *9: For load voltage change, equal to the unit voltage rating, constant input voltage.

ACCESSORIES

Power Cord GTL-123 GTL-240 PSW-004 PSW-008 PSW-009 PSW-010 PSW-012 PSW-008 PSW-009	x1 (Region dependent) Test Lead x 1 (30V/40V/80V/160VOne low voltage module for each channel) USB Cable"L" Type x1 Basic Accessories Kit x1 (30V/40V/80V/160V low voltage module) Basic Accessories Kit x1 (250V/800V high voltage module) Output terminal cover (30V/40V/80V/160V low voltage module) Output terminal cover (250V/800V high voltage module) High voltage output terminal (250V/800V high voltage module) Basic Accessories kit for PSW 250V/800V models Output terminal cover for 30V/40V/80V/160V models
PSW-009 PSW-011 PSW-012	Output terminal cover for 250V/800V models High voltage output terminal for 250V/800V model
OPTIONA	L ACCESSORIES
GET-001 GET-002 GET-005 GTL-130 GTL-248 GTL-250	Rack Mount Kit (KIA) Extended Terminal with max. 30A(30V/40V/80V/160V low voltage module) Extended Terminal with max. 10A(250V/800V high voltage module) Extended European Terminal with max. 20A(30V/40V/80V/160V low voltage module) Test Lead: 2x red, 2x black(250V/800V high voltage module) GPIB Cable, 2000mm GPIB Cable, 600mm USB to RS-232 Cable (M3), 3000mm



Two-channel Models Rear Panel



Three-channel Models Rear Panel

GOOD WILL INSTRUMENT CO., LTD.

No.7-1, Jhongsing Road, Tucheng Dist., New Taipei City 236, Taiwan T +886-2-2268-0389 F +886-2-2268-0639 E-mail: marketing@goodwill.com.tw



Two-channel Models Front Panel



Three-channel Models Front Panel





Multi-channel Power Supplies are Widely Used in Various Fields:

- * Electronics Product Development and Testing
- * Automated Production Lines
- * Laboratory Equipment Driving
- * Industrial Control Systems
- * Automotive Electronic Testing

