Programmable Switching D.C. Power Supply (Multi-Range D.C. Power Supply)



PSW-Series



FEATURES

- * Voltage Rating: 30V/80V/160V/250V/800V, 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 Operation(2 units in Series)for(30V/ 80V/160V), Parallel Operation(3 units in Parallel) for (30V/80V/160V/250V/800V)
- * 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, RS232-USB Cable
- * LabVIEW Driver



PSW 80-40.5 (0~80V, 0~40.5A, 1080W)



PSW 160-7.2 (0~160V, 0~7.2A, 360W)



PSW 80-13.5 (0~80V, 0~13.5A, 360W)

The PSW-Series is a single-output multi-range programmable switching DC Power Supply covering a power range up to 1080W. This series of products include fifteen models with the combination of 30V, 80V, 160V, 250V and 800V rated voltages and 360W, 720W and 1080W maximum output powers. The multi-range feature allows the flexible and efficient configuration of voltage and current within the rated power range. As the PSW-Series can be connected in series for maximum 2 units or in parallel for maximum 3 units, the capability of connecting multiple PSW-Series units for higher voltage or higher current output provides a broad coverage of applications. With the flexibility of multi-range power utilization and series/parallel connection, the PSW-Series significantly reduces the users' cost for various power supply products to accommodate the projects with different power requirements.

The C.V/C.C priority selection of the PSW-Series is a very useful feature for DUT protection. The conventional power supply normally operates under C.V 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 C.V 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 C.V mode to C.C mode. Though the current becomes stable after the C.C mode being activated, the current spike occurred at the C.V and C.C crossover point may possibly damage the DUT. At the power output-on stage, the PSW-Series is able to operate under C.C 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-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 spike current and protect the device from high current damage.

The OVP and OCP are provided with the PSW-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-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.

PARALLEL OPERATION (3 UNITS)

SERIES OPERATION (2 UNITS)

MODEL	SINGLE UNIT	2 UNITS	3 UNITS	MODEL	SINGLE UNIT	2 UNITS
PSW 30-36	30V/36A	30V/72A	30V/108A	PSW 30-36	30V/36A	60V/36A
PSW 30-72	30V/72A	30V/144A	30V/216A	PSW 30-72	30V/72A	60V/72A
PSW 30-108	30V/108A	30V/216A	30V/324A	PSW 30-108	30V/108A	60V/108A
PSW 80-13.5	80V/13.5A	80V/27A	80V/40.5A	PSW 80-13.5	80V/13.5A	160V/13.5A
PSW 80-27	80V/27A	80V/54A	80V/81A	PSW 80-27	80V/27A	160V/27A
PSW 80-40.5	80V/40.5A	80V/81A	80V/121.5A	PSW 80-40.5	80V/40.5A	160V/40.5A
PSW 160-7.2	160V/7.2A	160V/14.4A	160V/21.6A	PSW 160-7.2	160V/7.2A	320V/7.2A
PSW 160-14.4	160V/14.4A	160V/28.8A	160V/43.2A	PSW 160-14.4	160V/14.4A	320V/14.4A
PSW 160-21.6	160V/21.6A	160V/43.2A	160V/64.8A	PSW 160-21.6	160V/21.6A	320V/21.6A
PSW 250-4.5	250V/4.5A	250V/9A	250V/13.5A	PSW 250-4.5	N/A	N/A
PSW 250-9	250V/9A	250V/18A	250V/27A	PSW 250-9	N/A	N/A
PSW 250-13.5	250V/13.5A	250V/27A	250V/40.5A	PSW 250-13.5	N/A	N/A
PSW 800-1.44	800V/1.44A	800V/2.88A	800V/4.32A	PSW 800-1.44	N/A	N/A
PSW 800-2.88	800V/2.88A	800V/5.76A	800V/8.64A	PSW 800-2.88	N/A	N/A
PSW 800-4.32	800V/4.32A	800V/8.64A	800V/12.96A	PSW 800-4.32	N/A	N/A

SPECIFICATIONS										
SI ECH ICAHONS	PSW 30-36	PSW 30-72	PSW 30-108	PSW 80-13.5	PSW 80-27	PSW 80-40.5	PSW 160-7.2	PSW 160-14.4	PSW 160-21.6	
OUTPUT RATING										
Voltage	0 ~ 30V	0 ~ 30V	0 ~ 30V	0 ~ 80V	0 ~ 80V	0 ~ 80V	0 ~ 160V	0 ~ 160V	0 ~ 160V	
Current	0 ~ 36A	0 ~ 72A	0 ~ 108A	0 ~ 13.5A	0 ~ 27A	0 ~ 40.5A	0 ~ 7.2A	0 ~ 14.4A	0 ~ 21.6A	
Power	360W	720W	1080W	360W	720W	1080W	360W	720W	1080W	
REGULATION(CV)		ı				1		1		
Load Line	20mV 18mV	20mV 18mV	20mV 18mV	45mV 43mV	45mV 43mV	45mV 43mV	85mV 83mV	85mV 83mV	85mV 83mV	
REGULATION(CC)										
Load Line	41mA 41mA	77mA 77mA	113mA 113mA	18.5mA 18.5mA	32mA 32mA	45.5mA 45.5mA	12.2mA 12.2mA	19.4mA 19.4mA	26.6mA 26.6mA	
RIPPLE & NOISE (N					321101	13131131	12.2.1.7	1 .5	20.0	
CV p-p	60mV	80mV	100mV	60mV	80mV	100mV	60mV	80mV	100mV	
CV rms	7mV	11mV	14mV	7mV	11mV	14mV	12mV	15mV	20mV	
CC rms	72mA	144mA	216mA	27mA	54mA	81mA	15mA	30mA	45mA	
PROGRAMMING AC	CURACY									
Voltage	0.1% +10mV	0.1% +10mV	0.1% +10mV	0.1% +10mV	0.1% +10mV	0.1% +10mV	0.1% +100mV	0.1% +100mV	0.1% +100m\	
Current	0.1% + 30mA	0.1% + 60mA	0.1% + 100mA	0.1% + 10mA	0.1% + 30mA	0.1% + 40mA	0.1% + 5mA	0.1% +15mA	0.1% +20mA	
MEASUREMENT ACC	CURACY									
Voltage	0.1% +10mV	0.1% +10mV	0.1% +10mV	0.1% +10mV	0.1% +10mV	0.1% +10mV	0.1% +100mV	0.1% +100mV	0.1% +100m\	
Current	0.1% +30mA	0.1% +60mA	0.1% +100mA	0.1% +10mA	0.1% +30mA	0.1% +40mA	0.1% +5mA	0.1% +15mA	0.1% +20mA	
RESPONSE TIME										
Raise Time	50ms	50ms	50ms	50ms	50ms	50ms	100ms	100ms	100ms	
Fall Time(Full Load)	50ms	50ms	50ms	50ms	50ms	50ms	100ms	100ms	100ms	
Fall Time(No Load)	500ms	500ms	500ms	500ms	500ms	500ms	1000ms	1000ms	1000ms	
Load Transient Recover Time	1ms	1ms	1ms	1ms	1ms	1ms	2ms	2ms	2ms	
(Load change from										
50~100%)										
PROGRAMMING RE	SOLUTION (By	PC Remote Cont	rol Mode)							
Voltage	1mV	1mV	1mV	2mV	2mV	2mV	3mV	3mV	3mV	
Current	1mA	2mA	3mA	1mA	2mA	3mA	1mA	2mA	3mA	
MEASUREMENT RES	OLUTION (By	PC Remote Cont	rol Mode)							
Voltage	1mV	1mV	1mV	2mV	2mV	2mV	3mV	3mV	3mV	
Current	1mA	2mA	3mA	1mA	2mA	3mA	1mA	2mA	3mA	
SERIES AND PARALL	EL CAPABILITY									
Parallel Operation	Up to 3 units	including the ma	aster unit							
Series Operation		including the ma								
PROTECTION FUNC	TION									
OVP	3 ~ 33V	3 ~ 33V	3 ~ 33V	8 ~ 88V	8 ~ 88V	8 ~ 88V	16~ 176V	16 ~ 176V	16 ~ 176V	
OCP	3.6 ~ 39.6A	5 ~ 79.2A	5 ~ 118.8A	1.35 ~ 14.85A	2.7 ~ 29.7A	4.05 ~ 44.55A	0.72 ~ 7.92A	1.44 ~ 15.84A	2.16 ~ 23.76A	
OHP		lecated internal t		1.55 17.05A	2.7 23.77	1.03 · 44.33A	J./2 /.J2A	1.11 - 13.047	2.10 · 23.70A	
			emperatures							
FRONT PANEL DISP			0.30/.00.33	0.10/ 00 11	0.10/.00	0.70/ 00 /:	0.10/ 200 ::	0.10/	0.10/ 300	
Voltage Current	0.1%±20mV 0.1%±40mA	0.1%±20mV 0.1%±70mA	0.1%±20mV 0.1%±100mA	0.1%±20mV 0.1%±20mA	0.1%±20mV 0.1%±40mA	0.1%±20mV 0.1%±50mA	0.1%±100mV 0.1%±5mA	0.1%±100mV 0.1%±30mA	0.1%±100m\ 0.1%±30mA	
ENVIRONMENT CO								1		
Operation Temp	0°C ~ 50°C									
Storage Temp Operating Humidity	-25°C ~ 70°C	H: No condensat	ion							
Storage Humidity	20% ~ 85% RH; No condensation 90% RH or Less; No condensation									
READ BACK TEMP C	'									
Voltage										
Current	100ppm/°C of rated output voltage: after a 30 minute warm-up 200ppm/°C of rated output current: after a 30 minute warm-up									
OTHER										
	Yes									
Analog Control Interface	USB/LAN/GPIB-USB(Option)/RS232-USB(Option)									
Fan	With thermal sensing control									
POWER SOURCE	85VAC~265VAC, 47~63Hz, single phase									
				71.000. 1040.	142000. 32477	23.4000 32.400	71.0001044	142000 1244	214000 32477	
DIMENSIONS & WEIGHT	71(W)x124(H) x350(D) mm;	142(W)x124(H) x350(D)mm;	214(W)x124(H) x350(D) mm;	71(W)x124(H) x350(D) mm;	142(W)x124(H) x350(D) mm;	214(W)x124(H) x350(D) mm;	71 (W)x124(H) x350(D) mm;	142(W)x124(H) x350(D) mm;	214(W)x124(H) x350(D) mm;	
& WEIGHT	Approx. 3kg	Approx. 5.3kg	Approx. 7.5kg	Approx. 3kg	Approx. 5.3kg	Approx. 7.5kg	Approx. 3kg	Approx. 5.3kg	Approx. 7.5kg	
					PP. 0 3.31/g					

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POWER SUPPLIES

Programmable Switching D.C. Power Supply (Multi-Range D.C. Power Supply)

SPECIFICATIONS								
	PSW 250-4.5	PSW 250-9	PSW 250-13.5	PSW 800-1.44	PSW 800-2.88	PSW 800-4.32		
OUTPUT RATING			'			'		
Voltage	0 ~ 250V	0 ~ 250V	0 ~ 250V	0 ~ 800V	0 ~ 800V	0 ~ 800V		
Current	0 ~ 4.5A	0 ~ 9A	0 ~ 13.5A	0 ~ 1.44A	0 ~ 2.88A	0 ~ 4.32A		
Power REGULATION(CV)	360W	720W	1080W	360W	720W	1080W		
Load	130mV	130mV	130mV	405mV	405mV	405mV		
Line	128mV	128mV	128mV	403mV	403mV	403mV		
REGULATION(CC)								
Load	9.5mA	14mA	18.5mA	6.44mA	7.88mA	9.32mA		
Line	9.5mA	14mA	18.5mA	6.44mA	7.88mA	9.32mA		
RIPPLE & NOISE (Noise Ban	dwidth 20MHz; Ripp	e Bandwidth=1MHz	:)		1			
CV p-p	80mV	100mV	120mV	150mV 30mV	200mV 30mV	200mV 30mV		
CV rms CC rms	15mV 10mA	15mV 20mA	15mV 30mA	5mA	10mV	15mA		
PROGRAMMING ACCURACY	1	201111	301131					
Voltage	0.1%+200mV	0.1%+200mV	0.1%+200mV	0.1%+400mV	0.1%+400mV	0.1%+400mV		
Current	0.1%+5mA	0.1%+10mA	0.1%+15mA	0.1%+2mA	0.1%+4mA	0.1%+6mA		
MEASUREMENT ACCURACY								
Voltage	0.1%+200mV	0.1%+200mV	0.1%+200mV	0.1%+400mV	0.1%+400mV	0.1%+400mV		
Current	0.1%+5mA	0.1%+10mA	0.1%+15mA	0.1%+2mA	0.1%+4mA	0.1%+6mA		
RESPONSE TIME	T	I	1	T	T	ı		
Raise Time Fall Time(Full Load)	100ms	100ms	100ms	150ms	150ms	150ms		
Fall Time(No Load)	150ms 1200ms	150ms 1200ms	150ms 1200ms	300ms 2000ms	300ms 2000ms	300ms 2000ms		
Load Transient	2ms	2ms	2ms	2ms	2ms	2ms		
Recover Time								
(Load change from 50~100%)		134 13						
PROGRAMMING RESOLUTIO	1	,	F 1/	14mV	14mV	14mV		
Voltage Current	5mV 1mA	5mV 1mA	5mV 1mA	14mv 1mA	14mV 1mA	14mV 1mA		
MEASUREMENT RESOLUTIO	1			1				
Voltage	5mV	5mV	5mV	14mV	14mV	14mV		
Current	1mA	1mA	1mA	1mA	1mA	1mA		
SERIES AND PARALLEL CAPA			1 2					
Parallel Operation Series Operation	3 N/A	3 N/A	3 N/A	3 N/A	3 N/A	3 N/A		
PROTECTION FUNCTION	7	-7	7	7	7	7		
OVP	20 ~ 275V	20 ~ 275V	20 ~ 275V	20 ~ 880V	20 ~ 880V	20 ~ 880V		
ОСР	0.45 ~ 4.95A	0.9 ~ 9.9A	1.35 ~ 14.85A	0.144 ~ 1.584A	0.288 ~ 3.168A	0.432 ~ 4.752		
ОНР	Activated by elecated	internal temperature	S					
FRONT PANEL DISPLAY ACC	URACY (4 digits)							
Voltage	0.1%±200mV	0.1%±200mV	0.1%±200mV	0.1%±400mV	0.1%±400mV	0.1%±400mV		
Current	0.1%±5mA	0.1%±10mA	0.1%±20mA	0.1%±2mA	0.1%±4mA	0.1%±6mA		
ENVIRONMENT CONDITION	T							
Operation Temp Storage Temp	0 ~ 50 -25 ~ 70							
Operating Humidity	20% ~ 85% RH; No condensation							
Storage Humidity	90% RH or Less; No	condensation						
READ BACK TEMP COEFFICII								
Voltage Current	100ppm/°C of rated output voltage: after a 30 minute warm-up 200ppm/°C of rated output current: after a 30 minute warm-up							
OTHER	200ppin/ Corrated	output current . after	a 50 minute warm-up					
Analog Control	Yes							
Interface	USB/LAN/GPIB(Option)							
Fan	With thermal sensing control							
POWER SOURCE	85VAC~265VAC, 47~			1	T	1		
DIMENSIONS	71 (W)x124(H)	142(W)x124(H)	214(W)x124(H)	71 (W)x124 (H)	142(W)x124(H)	214(W)x124(H)		
& WEIGHT	x350(D) mm; Approx. 3kg	x350(D)mm; Approx. 5.3kg	x350(D) mm; Approx. 7.5kg	x350(D) mm; Approx. 3kg	x350(D) mm; Approx. 5.3kg	x350(D) mm; Approx. 7.5kg		
	111111111111111111111111111111111111111	FF	1	11	F F F F F F F F F F F F F F F F F F F	111111111111111111111111111111111111111		



PSW-Series

ORDERING INFORMATION (0~30V/0~36A/360W) Multi-Range DC Power Supply PSW 30-36 (0~30V/0~72A/720W) Multi-Range DC Power Supply (0~30V/0~108A/1080W) Multi-Range DC Power Supply PSW 30-108 PSW 80-13.5 (0~80V/0~13.5A/360W) Multi-Range DC Power Supply (0~80V/0~27A/720W) Multi-Range DC Power Supply PSW 80-27 (0~80V/0~40.5A/1080W) Multi-Range DC Power Supply PSW 80-40.5 **PSW 160-7.2** (0~160V/0~7.2A/360W) Multi-Range DC Power Supply **PSW 160-14.4** (0~160V/0~14.4A/720W) Multi-Range DC Power Supply **PSW 160-21.6** (0~160V/0~21.6A/1080W) Multi-Range DC Power Supply **PSW 250-4.5** (0~250V/0~4.5A/360W) Multi-Range DC Power Supply (0~250V/0~9A/720W) Multi-Range DC Power Supply **PSW 250-13.5** (0~250V/0~13.5A/1080W) Multi-Range DC Power Supply **PSW 800-1.44** (0~800V/0~1.44A/360W) Multi-Range DC Power Supply **PSW 800-2.88** (0~800V/0~2.88A/720W) Multi-Range DC Power Supply PSW 800-4.32 (0~800V/0~4.32A/1080W) Multi-Range DC Power Supply ACCESSORIES CD-ROM x 1 (Programming Manual, User Manual), GTL-123 Test Lead x 1 (for PSW 30V/80V/160V), Power Cord x 1 (Region dependent), GTL-240 USB Cable "L" Type x 1, PSW-004 Basic Accessories Kit x 1(for PSW 30V/80V/160V), 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, PSW-008 Basic Accessories kit for PSW 250V/800V models PSW-009 Output terminal cover for 30V/80V/160V models PSW-011 Output terminal cover for 250V/800V models PSW-012 High voltage output terminal for 250V/800V model OPTIONAL ACCESSORIES PSW-001 Accessory Kit PSW-002 Simple IDC Tool PSW-003 Contact Removal Tool PSW-005 Cable for 2 Units of PSW-Series in Series Mode Connection(for PSW 30V/80V/160V) PSW-006 Cable for 2 Units of PSW-Series in Parallel Mode Connection PSW-007 Cable for 3 Units of PSW-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 (for PSW 30V/80V/160V) Extended Terminal (for PSW 250V/800V) GET-002 GTL-130 Test lead: 2 x red, 2 x black(for PSW 250V/800V) PSW-010 Large filter (Type II/III) GTL-248 GPIB Cable, Double Shielded, 2000mm GTL-250 GPIB Cable, Double Shielded, 600mm USB-GPIB Adapter, GPIB-USB-HS, USB 2.0, Hi-Speed USB compliance, 2000mm

PSW-Series (LV) Rear Panel



PSW-Series (HV) Rear Panel



GUR-001 USB to RS-232 Cable

For: PSW-Series, 300mm



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GTL-251

USB to RS-232 Cable, 300mm

POWER SUPPLIES

GUG-001 GPIB to USB Adapter

For: GDS-3000Series, PSW-Series



PSW-001 Accessory Kit



PSW-002 Simple IDC Tool



GET-001 Extended Terminal (for PSW 30V/80V/160V)



GET-002 Extended Terminal



PSW-003 Contact Removal Tool



(for PSW 250V/800V)





PSW-005 Cable for 2 Units of **PSW-Series in Series Mode Connection** (for PSW 30V/80V/160V)



PSW-006 Cable for 2 Units of **PSW-Series in Parallel Mode Cconnection**



PSW-007 Cable for 3 Units of **PSW-Series** in Parallel **Mode Connection**



PSW-004 Basic Accessories Kit x 1 (for PSW 30V/80V/160V)



PSW-008 Basic Accessories Kit (for PSW 250V/800V)

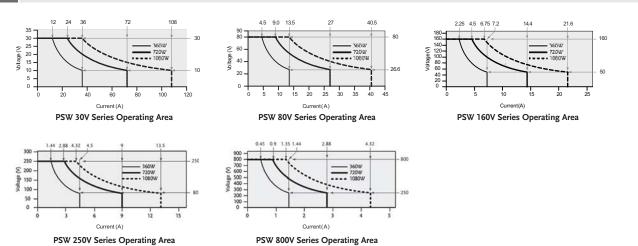


GTL-130 Test lead, 1200mm, 18AWG, UL 3239 (for PSW 250V/800V)



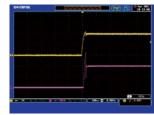
WIDA GENERAL TRADING L.L.C ADDRESS: NO. 201 GREEN CORNER BLDG. AL JAZEIRA ST., AL RIGGA RD. DUBAI, PO BOX 171315 UNITED ARAB EMIRATES PHONE: +971 4 2959818 FAX: +971 4 2501223 E-MAIL: SALES@WIDACO.COMWIDA GENERAL TRADING L.L.C ADDRESS: NO. 201 GREEN CORNER BLDG. AL JAZEIRA ST., AL RIGGA RD. DUBAI, PO BOX 171315 UNITED ARAB EMIRATES PHONE: +971 4 2959818 FAX: +971 4 2501223 E-MAIL: SALES@WIDACO.COM

A. MULTI-RANGE OPERATION



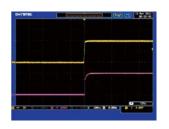
When the power supply is configured that the total output (Current x Voltage output) is less than the rated power output, it functions as a typical Constant Current (C.C) and Constant Voltage (C.V) power supply. However, when the power supply is configured such that the total output power (Current x Voltage Output) exceeds the rated power output, the effective output is actually limited to the operation area of the unit.

B. C.V / C.C PRIORITY SELECTION

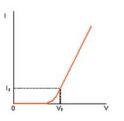


The Inrush Current and Surge Voltage occur at LED Forward

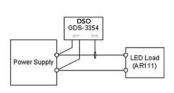
Voltage(Vf)Under C.V Priority



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



V-I Characteristic of Diode

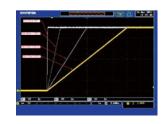


Using GDS-3354 DSO to Test LED Operation Under C.V Priority and C.C Priority Respectively

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

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

C. ADJUSTABLE SLEW RATE



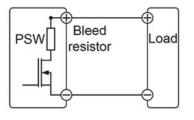
The Adjustable Rise Time of the PSW 30V



The Adjustable Rise Time of the PSW 800V

The PSW-Series has adjustable slew rates for the level transition of both Current and Voltage. This gives the PSW-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.

D. BLEEDER CONTROL



PSW-Series Built-in Bleed Resistor

The PSW-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.

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