

PSW-360W Series Specifications

Model		PSW	30-36	40-27	80-13.5	160-7.2	250-4.5	800-1.44
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		PSW	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	45	85	130	405
Ripple and noise (*3)	p-p (*4)	mV	60	60	60	60	80	150
	r.m.s. (*5)	mV	7	7	7	12	15	30
Temperature coefficient		ppm/°C	100ppm/°C of rated output voltage, after a 30 minute warm-up.					
Remote sense compensation voltage (single wire)		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		PSW	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	32	18.5	12.2	9.5	6.44
Ripple and noise	r.m.s.	mA	72	54	27	15	10	5
Temperature coefficient		ppm/°C	200ppm/°C of rated output current, after a 30 minute warm-up.					

Protection Function		PSW	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 output voltage)					
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		± (2% of rated output current)					
Over temperature protection (OTP)	Operation		Turn the output off.					
Low AC input protection (AC-FAIL)	Operation		Turn the output off.					
Power limit (POWER LIMIT)	Operation		Over power limit.					
	Value (fixed)		Approx. 105% of rated output power					

Analog Programming and Monitoring			PSW	30-36	40-27	80-13.5	160-7.2	250-4.5	800-1.44
External voltage control output voltage	at 23 °C ± 5 °C			Accuracy and linearity: ±0.5% of rated output voltage.					
External voltage control output current	at 23 °C ± 5 °C			Accuracy and linearity: ±1% of rated output current.					
External resistor control output voltage	at 23 °C ± 5 °C			Accuracy and linearity: ±1.5% of rated output voltage.					
External resistor control output current	at 23 °C ± 5 °C			Accuracy and linearity: ±1.5% of rated output current.					
Output voltage monitor	at 23 °C ± 5 °C			Accuracy: ±1%				Accuracy: ±2%	
Output current monitor	at 23 °C ± 5 °C			Accuracy: ±1%				Accuracy: ±2%	
Shutdown control				Turns the output off with a LOW (0V to 0.5V) or short-circuit.					
Output on/off control				Possible logic selections: Turn the output on using a LOW (0V to 0.5V) or short-circuit, turn the output off using a HIGH (4.5V to 5V) or open-circuit. Turn the output on using a HIGH (4.5V to 5V) or open-circuit, turn the output off using a LOW (0V to 0.5V) or short-circuit.					
CV/CC/ALM/PWR ON/OUT ON indicator				Photocoupler open collector output; Maximum voltage 30V, maximum sink current 8mA.					

Front Panel			PSW	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				GREEN LED's: CV, CC, VSR, ISR, DLY, RMT, 20, 40, 60, 80, 100, %W, W, V, A					
				RED LED's: ALM					
Buttons				Function, OVP/OCP, Set, Test, Lock/Local, PWR DSPL, Output					
Knobs				Voltage, Current					
USB port				Type A USB connector					

Programming and Measurement (USB, LAN, GPIB)			PSW	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

Series and Parallel Capability			PSW	30-36	40-27	80-13.5	160-7.2	250-4.5	800-1.44
Parallel number			Units	3	3	3	3	3	3
Series number			Units	2	2	2	2	None	None

Input Characteristics		PSW	30-36	40-27	80-13.5	160-7.2	250-4.5	800-1.44
Norminal input rating			100Vac to 240Vac, 50Hz to 60Hz, single phase					
Input voltage range			85Vac ~ 265Vac					
Input frequency range			47Hz ~ 63Hz					
Maximum input current	100Vac	A	5					
	200Vac	A	2.5					
Inrush current			Less than 25A.					
Maximum input power		VA	500					
Power factor	100Vac		0.99					
	200Vac		0.97					
Efficiency	100Vac	%	77	78	78	79	79	80
	200Vac	%	79	80	80	81	81	82
Hold-up time			20ms or greater					

Interface Capabilities		PSW	30-36	40-27	80-13.5	160-7.2	250-4.5	800-1.44
USB			TypeA: Host, TypeB: Slave, Speed: 1.1/2.0, USB Class: CDC(Communications Device Class)					
LAN			MAC Address, DNS IP Address, User Password, Gateway IP Address, Instrument IP Address, Subnet Mask					
GPIB			Optional: GUG-001 (GPIB to USB Adapter)					

Environmental Conditions		PSW	30-36	40-27	80-13.5	160-7.2	250-4.5	800-1.44
Operaing temperature			0° C to 50° C					
Storage temperature			-25° C to 70° C					
Operating humidity			20% to 85% RH; No condensation					
Storage humidity			90% RH or less; No condensation					
Altitude			Maximum 2000m					

General Specifications		PSW	30-36	40-27	80-13.5	160-7.2	250-4.5	800-1.44
Weight	main unit only	kg	Approx. 3kg					
Dimensions	(W×H×D)	mm ³	71×124×350					
Cooling			Forced air cooling by internal fan.					
EMC			Complies with the European EMC directive 2004/108/EC for Class A test and measurement products.					
Safety			Complies with the European Low Voltage Directive 2006/95/EC and carries the CE-marking.					
Withstand voltage	Between input and chassis		No abnormalities at 1500 Vac for 1 minute					
	Between input and output		No abnormalities at 3000 Vac for 1 minute					
	Between output and chassis		No abnormalities at 500 Vdc for 1 minute for 30V, 40V, 80V, 160V models. No abnormalities at 1500 Vdc for 1 minute for 250V, 800V models.					
Insulation resistance	Between input and chassis		500 Vdc, 100 MΩ or more.					
	Between input and output		500 Vdc, 100 MΩ or more.					
	Between output and chassis		500 Vdc, 100 MΩ or more for 30V, 40V, 80V, 160V and 250V models. 1000 Vdc, 100 MΩ or more for 800V models.					

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.**

***5: Measurement frequency bandwidth is 5Hz to 1MHz.**

***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.**

PSW-720W Series Specifications

Model		PSW	30-72	40-54	80-27	160-14.4	250-9	800-2.88
Rated output voltage		V	30	40	80	160	250	800
Rated output current		A	72	54	27	14.4	9	2.88
Rated output power		W	720	720	720	720	720	720
Power ratio		—	3	3	3	3.2	3.125	3.2

Constant Voltage Mode		PSW	30-72	40-54	80-27	160-14.4	250-9	800-2.88
Line regulation (*1)		mV	18	23	43	83	128	403
Load regulation (*2)		mV	20	25	45	85	130	405
Ripple and noise (*3)	p-p (*4)	mV	80	80	80	80	100	200
	r.m.s. (*5)	mV	11	11	11	15	15	30
Temperature coefficient		ppm/°C	100ppm/°C of rated output voltage, after a 30 minute warm-up.					
Remote sense compensation voltage (single wire)		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		PSW	30-72	40-54	80-27	160-14.4	250-9	800-2.88
Line regulation (*1)		mA	77	59	32	19.4	14	7.88
Load regulation (*9)		mA	77	59	32	19.4	14	7.88
Ripple and noise	r.m.s.	mA	144	108	54	30	20	10
Temperature coefficient		ppm/°C	200ppm/°C of rated output current, after a 30 minute warm-up.					

Protection Function		PSW	30-72	40-54	80-27	160-14.4	250-9	800-2.88
Over voltage protection (OVP)	Setting range	V	3-33	4-44	8-88	16-176	20-275	20-880
	Setting accuracy		± (2% of rated output voltage)					
Over current protection (OCP)	Setting range	A	5-79.2	5-59.4	2.7-29.7	1.44-15.84	0.9-9.9	0.288-3.168
	Setting accuracy		± (2% of rated output current)					
Over temperature protection (OTP)	Operation		Turn the output off.					
Low AC input protection (AC-FAIL)	Operation		Turn the output off.					
Power limit (POWER LIMIT)	Operation		Over power limit.					
	Value (fixed)		Approx. 105% of rated output power					

Analog Programming and Monitoring			PSW	30-72	40-54	80-27	160-14.4	250-9	800-2.88
External voltage control output voltage	at 23 °C ± 5 °C			Accuracy and linearity: ±0.5% of rated output voltage.					
External voltage control output current	at 23 °C ± 5 °C			Accuracy and linearity: ±1% of rated output current.					
External resistor control output voltage	at 23 °C ± 5 °C			Accuracy and linearity: ±1.5% of rated output voltage.					
External resistor control output current	at 23 °C ± 5 °C			Accuracy and linearity: ±1.5% of rated output current.					
Output voltage monitor	at 23 °C ± 5 °C			Accuracy: ±1%				Accuracy: ±2%	
Output current monitor	at 23 °C ± 5 °C			Accuracy: ±1%				Accuracy: ±2%	
Shutdown control				Turns the output off with a LOW (0V to 0.5V) or short-circuit.					
Output on/off control				Possible logic selections: Turn the output on using a LOW (0V to 0.5V) or short-circuit, turn the output off using a HIGH (4.5V to 5V) or open-circuit. Turn the output on using a HIGH (4.5V to 5V) or open-circuit, turn the output off using a LOW (0V to 0.5V) or short-circuit.					
CV/CC/ALM/PWR ON/OUT ON indicator				Photocoupler open collector output; Maximum voltage 30V, maximum sink current 8mA.					

Front Panel			PSW	30-72	40-54	80-27	160-14.4	250-9	800-2.88
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	70	60	40	30	10	4
Indications				GREEN LED's: CV, CC, VSR, ISR, DLY, RMT, 20, 40, 60, 80, 100, %W, W, V, A					
				RED LED's: ALM					
Buttons				Function, OVP/OCP, Set, Test, Lock/Local, PWR DSPL, Output					
Knobs				Voltage, Current					
USB port				Type A USB connector					

Programming and Measurement (USB, LAN, GPIB)			PSW	30-72	40-54	80-27	160-14.4	250-9	800-2.88
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	60	50	30	15	10	4
Output voltage programming resolution			mV	1	1	2	3	5	14
Output current programming resolution			mA	2	2	2	2	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	60	50	30	15	10	4
Output voltage measurement resolution			mV	1	1	2	3	5	14
Output current measurement resolution			mA	2	2	2	2	1	1

Series and Parallel Capability			PSW	30-72	40-54	80-27	160-14.4	250-9	800-2.88
Parallel number			Units	3	3	3	3	3	3
Series number			Units	2	2	2	2	None	None

Input Characteristics		PSW	30-72	40-54	80-27	160-14.4	250-9	800-2.88
Norminal input rating			100Vac to 240Vac, 50Hz to 60Hz, single phase					
Input voltage range			85Vac ~ 265Vac					
Input frequency range			47Hz ~ 63Hz					
Maximum input current	100Vac	A	10					
	200Vac	A	5					
Inrush current			Less than 50A.					
Maximum input power		VA	1000					
Power factor	100Vac		0.99					
	200Vac		0.97					
Efficiency	100Vac	%	77	78	78	79	79	80
	200Vac	%	79	80	80	81	81	82
Hold-up time			20ms or greater					

Interface Capabilities		PSW	30-72	40-54	80-27	160-14.4	250-9	800-2.88
USB			TypeA: Host, TypeB: Slave, Speed: 1.1/2.0, USB Class: CDC(Communications Device Class)					
LAN			MAC Address, DNS IP Address, User Password, Gateway IP Address, Instrument IP Address, Subnet Mask					
GPIB			Optional: GUG-001 (GPIB to USB Adapter)					

Environmental Conditions		PSW	30-72	40-54	80-27	160-14.4	250-9	800-2.88
Operaing temperature			0° C to 50° C					
Storage temperature			-25° C to 70° C					
Operating humidity			20% to 85% RH; No condensation					
Storage humidity			90% RH or less; No condensation					
Altitude			Maximum 2000m					

General Specifications		PSW	30-72	40-54	80-27	160-14.4	250-9	800-2.88
Weight	main unit only	kg	Approx. 5.3kg					
Dimensions	(W×H×D)	mm ³	142×124×350					
Cooling			Forced air cooling by internal fan.					
EMC			Complies with the European EMC directive 2004/108/EC for Class A test and measurement products.					
Safety			Complies with the European Low Voltage Directive 2006/95/EC and carries the CE-marking.					
Withstand voltage	Between input and chassis		No abnormalities at 1500 Vac for 1 minute					
	Between input and output		No abnormalities at 3000 Vac for 1 minute					
	Between output and chassis		No abnormalities at 500 Vdc for 1 minute for 30V, 40V, 80V, 160V models. No abnormalities at 1500 Vdc for 1 minute for 250V, 800V models.					
Insulation resistance	Between input and chassis		500 Vdc, 100 MΩ or more.					
	Between input and output		500 Vdc, 100 MΩ or more.					
	Between output and chassis		500 Vdc, 100 MΩ or more for 30V, 40V, 80V, 160V and 250V models. 1000 Vdc, 100 MΩ or more for 800V models.					

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.**

***5: Measurement frequency bandwidth is 5Hz to 1MHz.**

***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.**

PSW-1080W Series Specifications

Model		PSW	30-108	40-81	80-40.5	160-21.6	250-13.5	800-4.32
Rated output voltage		V	30	40	80	160	250	800
Rated output current		A	108	81	40.5	21.6	13.5	4.32
Rated output power		W	1080	1080	1080	1080	1080	1080
Power ratio		—	3	3	3	3.2	3.125	3.2

Constant Voltage Mode		PSW	30-108	40-81	80-40.5	160-21.6	250-13.5	800-4.32
Line regulation (*1)		mV	18	23	43	83	128	403
Load regulation (*2)		mV	20	25	45	85	130	405
Ripple and noise (*3)	p-p (*4)	mV	100	100	100	100	120	200
	r.m.s. (*5)	mV	14	14	14	20	15	30
Temperature coefficient		ppm/°C	100ppm/°C of rated output voltage, after a 30 minute warm-up.					
Remote sense compensation voltage (single wire)		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		PSW	30-108	40-81	80-40.5	160-21.6	250-13.5	800-4.32
Line regulation (*1)		mA	113	86	45.5	26.6	18.5	9.32
Load regulation (*9)		mA	113	86	45.5	26.6	18.5	9.32
Ripple and noise	r.m.s.	mA	216	162	81	45	30	15
Temperature coefficient		ppm/°C	200ppm/°C of rated output current, after a 30 minute warm-up.					

Protection Function		PSW	30-108	40-81	80-40.5	160-21.6	250-13.5	800-4.32
Over voltage protection (OVP)	Setting range	V	3-33	4-44	8-88	16-176	20-275	20-880
	Setting accuracy		± (2% of rated output voltage)					
Over current protection (OCP)	Setting range	A	5-118.8	5-89.1	4.05-44.55	2.16-23.76	1.35-14.85	0.432-4.752
	Setting accuracy		± (2% of rated output current)					
Over temperature protection (OTP)	Operation		Turn the output off.					
Low AC input protection (AC-FAIL)	Operation		Turn the output off.					
Power limit (POWER LIMIT)	Operation		Over power limit.					
	Value (fixed)		Approx. 105% of rated output power					

Analog Programming and Monitoring			PSW	30-108	40-81	80-40.5	160-21.6	250-13.5	800-4.32
External voltage control output voltage	at 23 °C ± 5 °C			Accuracy and linearity: ±0.5% of rated output voltage.					
External voltage control output current	at 23 °C ± 5 °C			Accuracy and linearity: ±1% of rated output current.					
External resistor control output voltage	at 23 °C ± 5 °C			Accuracy and linearity: ±1.5% of rated output voltage.					
External resistor control output current	at 23 °C ± 5 °C			Accuracy and linearity: ±1.5% of rated output current.					
Output voltage monitor	at 23 °C ± 5 °C			Accuracy: ±1%				Accuracy: ±2%	
Output current monitor	at 23 °C ± 5 °C			Accuracy: ±1%				Accuracy: ±2%	
Shutdown control				Turns the output off with a LOW (0V to 0.5V) or short-circuit.					
Output on/off control				Possible logic selections: Turn the output on using a LOW (0V to 0.5V) or short-circuit, turn the output off using a HIGH (4.5V to 5V) or open-circuit. Turn the output on using a HIGH (4.5V to 5V) or open-circuit, turn the output off using a LOW (0V to 0.5V) or short-circuit.					
CV/CC/ALM/PWR ON/OUT ON indicator				Photocoupler open collector output; Maximum voltage 30V, maximum sink current 8mA.					

Front Panel			PSW	30-108	40-81	80-40.5	160-21.6	250-13.5	800-4.32
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	100	80	50	30	20	6
Indications				GREEN LED's: CV, CC, VSR, ISR, DLY, RMT, 20, 40, 60, 80, 100, %W, W, V, A RED LED's: ALM					
Buttons				Function, OVP/OCP, Set, Test, Lock/Local, PWR DSPL, Output					
Knobs				Voltage, Current					
USB port				Type A USB connector					

Programming and Measurement (USB, LAN, GPIB)			PSW	30-108	40-81	80-40.5	160-21.6	250-13.5	800-4.32
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	100	80	40	20	15	6
Output voltage programming resolution			mV	1	1	2	3	5	14
Output current programming resolution			mA	3	3	3	3	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	100	80	40	20	15	6
Output voltage measurement resolution			mV	1	1	2	3	5	14
Output current measurement resolution			mA	3	3	3	3	1	1

Series and Parallel Capability			PSW	30-108	40-81	80-40.5	160-21.6	250-13.5	800-4.32
Parallel number			Units	3	3	3	3	3	3
Series number			Units	2	2	2	2	None	None

Input Characteristics		PSW	30-108	40-81	80-40.5	160-21.6	250-13.5	800-4.32
Norminal input rating			100Vac to 240Vac, 50Hz to 60Hz, single phase					
Input voltage range			85Vac ~ 265Vac					
Input frequency range			47Hz ~ 63Hz					
Maximum input current	100Vac	A	15					
	200Vac	A	7.5					
Inrush current			Less than 75A.					
Maximum input power		VA	1500					
Power factor	100Vac		0.99					
	200Vac		0.97					
Efficiency	100Vac	%	77	78	78	79	79	80
	200Vac	%	79	80	80	81	81	82
Hold-up time			20ms or greater					

Interface Capabilities		PSW	30-108	40-81	80-40.5	160-21.6	250-13.5	800-4.32
USB			TypeA: Host, TypeB: Slave, Speed: 1.1/2.0, USB Class: CDC(Communications Device Class)					
LAN			MAC Address, DNS IP Address, User Password, Gateway IP Address, Instrument IP Address, Subnet Mask					
GPIB			Optional: GUG-001 (GPIB to USB Adapter)					

Environmental Conditions		PSW	30-108	40-81	80-40.5	160-21.6	250-13.5	800-4.32
Operaing temperature			0° C to 50° C					
Storage temperature			-25° C to 70° C					
Operating humidity			20% to 85% RH; No condensation					
Storage humidity			90% RH or less; No condensation					
Altitude			Maximum 2000m					

General Specifications		PSW	30-108	40-81	80-40.5	160-21.6	250-13.5	800-4.32
Weight	main unit only	kg	Approx. 7.5kg					
Dimensions	(W×H×D)	mm ³	214×124×350					
Cooling			Forced air cooling by internal fan.					
EMC			Complies with the European EMC directive 2004/108/EC for Class A test and measurement products.					
Safety			Complies with the European Low Voltage Directive 2006/95/EC and carries the CE-marking.					
Withstand voltage	Between input and chassis		No abnormalities at 1500 Vac for 1 minute					
	Between input and output		No abnormalities at 3000 Vac for 1 minute					
	Between output and chassis		No abnormalities at 500 Vdc for 1 minute for 30V, 40V, 80V, 160V models. No abnormalities at 1500 Vdc for 1 minute for 250V, 800V models.					
Insulation resistance	Between input and chassis		500 Vdc, 100 MΩ or more.					
	Between input and output		500 Vdc, 100 MΩ or more.					
	Between output and chassis		500 Vdc, 100 MΩ or more for 30V, 40V, 80V, 160V and 250V models. 1000 Vdc, 100 MΩ or more for 800V models.					

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.**

***5: Measurement frequency bandwidth is 5Hz to 1MHz.**

***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.**