



SUNPOWER TECHNOLOGY CORP.
 16F-1, No.150, Jian Yi Rd., Chung Ho City, Taipei Hsien, Taiwan, R.O.C.
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SPS-G075-xx Series

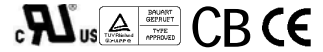
75W, Single Output

Green mode function



129 x 95 x 38 mm

5.08 x 3.74 x 1.50 inch



Features:

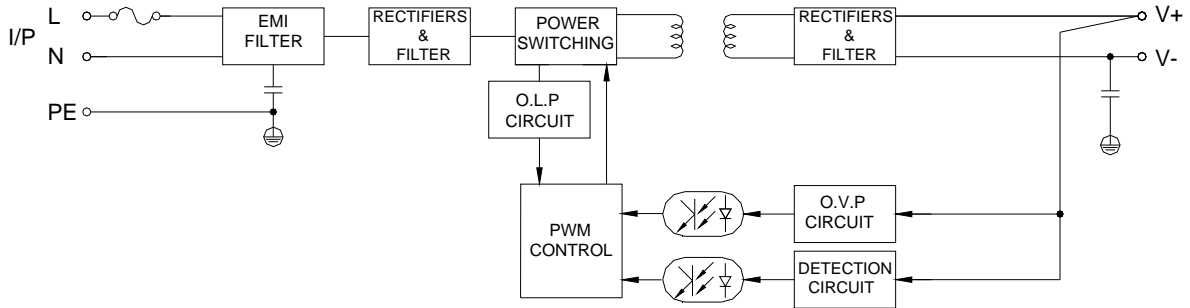
Green mode design, no load < 0.5W
High efficiency and high reliability
Power ON with LED indicator
Built in EMI filter, low ripple noise
Over voltage protection Shutdown and latch off
Over load short circuit protection Hiccup mode
Output voltage $\pm 10\%$ adjustment
100% full load burn-in test
-20 ~70 Operating temperature
UL, cUL, TUV, CB, CE approved
3 years warranty

Specification:

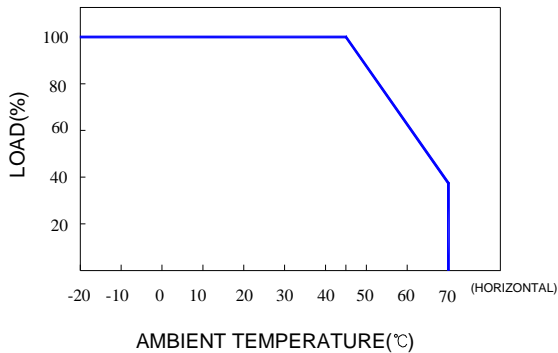
INPUT	Voltage	88V ~ 264VAC universal full range or 125V ~ 375VDC.						
	Frequency	47 ----- 63 Hz						
	Current	<1.8A@100V AC input, full load condition						
	Inrush Current	<30A@115V , <50A@230V AC input, Cold start at 25 ambient						
	Leakage Current	<0.75mA@264V AC input						
OUTPUT	MODEL No.	SPS-G075-05	SPS-G075-12	SPS-G075-15	SPS-G075-24	SPS-G075-30	SPS-G075-48	
	Voltage	5V	12V	15V	24V	30V	48V	
	Min Load	0A	0A	0A	0A	0A	0A	
	Max Load	12A	6A	5A	3.2A	2.5A	1.6A	
	Output Tolerance ²	$\pm 2\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	
	Ripple Noise MAX. ³	70mV	120mV	150mV	150mV	200mV	200mV	
	Efficiency (TYP.)	77%	82%	83%	84%	86%	86%	
PROTECTION	Output MAX.	60W	72W	75W	76.8W	75W	76.8W	
	Over Voltage	5.8~7.0V	13.8~16.8V	17.3~21.0V	27.6~33.6V	34.5~42.0V	55.2~67.2V	
	Over Load Short Circuit	Shutdown and latch off, recover after re-start up. When power supply over 105%~ 150% max load or short circuit acted, power supply will go into hiccup mode and recover automatically after the fault is removed.						
ELEC. CHAR.	Rise time	<30mS						
	Hold up time	>60mS@230V, full load condition						
	Setup time	<1 Sec@100 240V AC						
ENVIRONMENT	Green mode function	Power consumption at no load < 0.5W at 240VAC input						
	Temperature ⁴	Operating: -20 ~ +70 ; De-rating: 45 ~ 70 : 2.5%/ ; Storage: -40 ~ +85						
SAFETY	Humidity	Operating: 20% ~ 90% RH (non condensing) ; Storage: 10% ~ 95% RH (non condensing)						
	Withstand voltage	I/P-O/P:3KVAC, I/P-PE:1.5KVAC, O/P-PE:0.5KVAC, 1minute						
	Isolation resistance	I/P-O/P, I/P-PE, O/P-PE 100M /500VDC at 25 / 70% RH						
EMC	Safety standard	UL 60950-1 2 nd , CSA C22.2 No. 60950-1-07 2 nd , TUV EN 60950-1:2006, IEC 60950-1:2005, approved.						
	EMI	EN 55022 CLASS B, FCC CFR 47 PART 15 CLASS B, CNS 13438 CLASS B. Compliance to EN61000-3-2 CLASS A, EN61000-3-3						
	EMS	EN 55024 EN 61000-4-2,3,4,5,6,8,11						
OTHERS	Cooling	Natural cooling.						
	M.T.B.F.	326K hours						
	Terminal pitch	5P / 9.5mm with plastic cover, 90 deg terminal optional (with MOQ)						
NOTE	Packing	N.W.: 0.44Kg / pc ; 30pcs / 1.20 CUFT / 1 CTN						
	1	All measurements which not mentioned are based on 230VAC input, output Max at ambient 25 / 70%RH						
	2	Output tolerance included set up voltage, line regulation and load regulation.						
	3	Ripple & noise are measured at 100 254VAC input with 0 50 condition and 20MHz of bandwidth by using a 10 15 twisted pair-wire terminated with a 0.1uF & a 47uF parallel capacitor.						
	4	The operating temperature shall follow the de-rating curve in spec The output load may be requested for decreasing as de-rating curve in spec when low input voltage is under 100VAC.						
5	The power supply is considered a component of end-equipment. The end-equipment must be re-confirmed whether comply with EMC directives.							

SPS-G075-xx Series

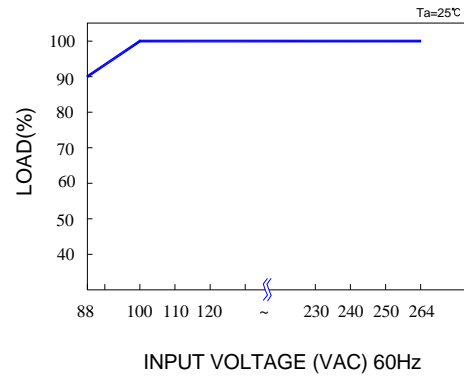
Block Diagram US2



De-rating Curve

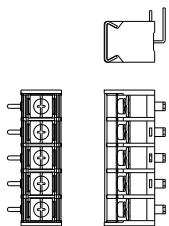


Output De-rating Vs Input Voltage

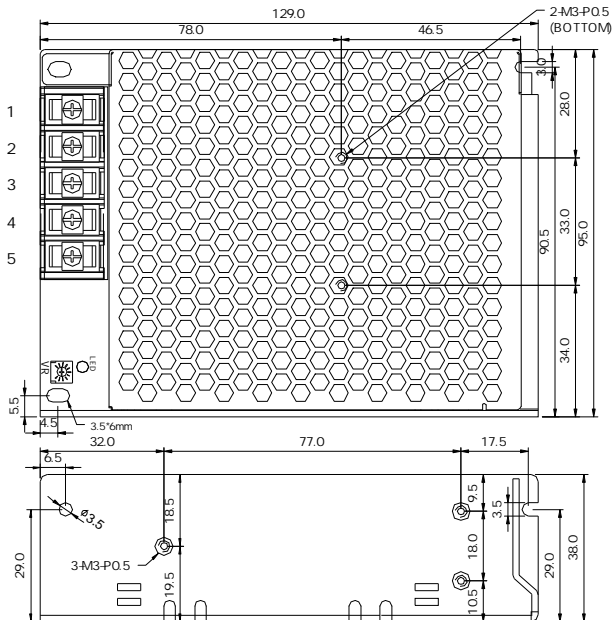


Dimension:

(Unit: mm)



90 deg. terminal optional
with plastic cover
(has MOQ required)



Terminal Pin. No Assignment: 5P / 9.5mm with plastic cover

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4	DC OUTPUT -V
2	AC/N	5	DC OUTPUT +V
3	PE		



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SPS-G075-Dx Series

Dual Output



129 x 95 x 38 mm
 5.08 x 3.74 x 1.50 inch

Features:

Power ON with LED indicator
Built in EMI filter, low ripple noise
Over voltage protection Shutdown and latch off
Over load short circuit protection Hiccup mode
100% full load burn-in test
-20 ~70 Operating temperature
UL, cUL, TUV, CB, CE approved
3 years warranty

Specification:

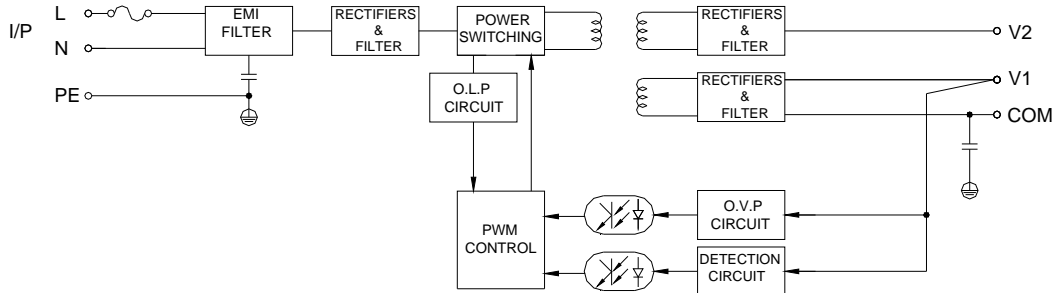
INPUT	Voltage	88V ~ 264VAC universal full range or 125V ~ 375VDC.			
	Frequency	47 ----- 63 Hz			
	Current	<1.8A@100V AC input, full load condition			
	Inrush Current	<30A@115V , <50A@230V AC input, Cold start at 25 ambient			
	Leakage Current	<0.75mA@264V AC input			
OUTPUT	MODEL No.	SPS-G075-D1		SPS-G075-D2	
	Output	V1	V2	V1	V2
	Voltage	5V	12V	5V	24V
	Min Load	0.3A	0.2A	0.3A	0.2A
	Max Load	8A	5A	8A	2.5A
	Output Tolerance 2	± 3%	± 7%	± 3%	± 7%
	Ripple Noise MAX. 3	70mV	120mV	70mV	200mV
	Efficiency (TYP.)	78%		79%	
Output MAX.	68W		68W		
PROTECTION	Over Voltage	V1 5.8 ~ 7.0V Shutdown and latch off, recover after re-start up.			
	Over Load Short Circuit	When power supply over 105%~ 150% max load or short circuit acted, power supply will go into hiccup mode and recover automatically after the fault is removed.			
ELEC. CHAR.	Rise time	<30mS			
	Hold up time	>60mS@230V, full load condition			
	Setup time	<1 Sec@100 240V AC			
ENVIRONMENT	Temperature 4	Operating: -20 ~ +70 ; De-rating: 45 ~ 70 : 2.5%/ ; Storage: -40 ~ +85			
	Humidity	Operating: 20% ~ 90% RH (non condensing) ; Storage: 10% ~ 95% RH (non condensing)			
SAFETY	Withstand voltage	I/P-O/P:3KVAC, I/P-PE:1.5KVAC, O/P-PE:0.5KVAC, 1minute			
	Isolation resistance	I/P-O/P, I/P-PE, O/P-PE 100M /500VDC at 25 / 70% RH			
	Safety standard	UL 60950-1 2 nd , CSA C22.2 No. 60950-1-07 2 nd , TUV EN 60950-1:2006, IEC 60950-1:2005, approved.			
EMC	EMI	EN 55022 CLASS B, FCC CFR 47 PART 15 CLASS B, CNS 13438 CLASS B. Compliance to EN61000-3-2 CLASS A, EN61000-3-3			
	EMS	EN 55024 EN 61000-4-2,3,4,5,6,8,11			
OTHERS	Cooling	Natural cooling.			
	M.T.B.F.	299K hours			
	Terminal pitch	7P / 9.5mm with plastic cover, 90 deg terminal optional (with MOQ)			
	Packing	N.W.: 0.46Kg / pc ; 30pcs / 1.20 CUFT / 1 CTN			
NOTE	1	All measurements which not mentioned are based on 230VAC input, output Max at ambient 25 / 70%RH			
	2	Output tolerance included set up voltage, line regulation and load regulation. The regulation is measured between 20%-100% max load of each output, Total output t must under output Max .			
	3	Ripple & noise are measured at 100 254VAC input with 0 50 condition and 20MHz of bandwidth by using a 10 15 twisted pair-wire terminated with a 0.1uF & a 47uF parallel capacitor.			
	4	The operating temperature shall follow the de-rating curve in spec The output load may be requested for decreasing as de-rating curve in spec when low input voltage is under 100VAC.			
	5	The power supply is considered a component of end-equipment. The end-equipment must be re-confirmed whether comply with EMC directives.			



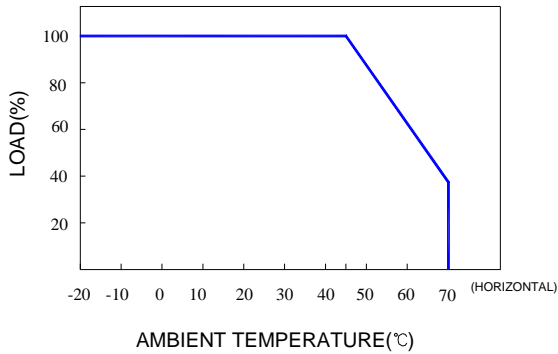
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SPS-G075-Dx Series

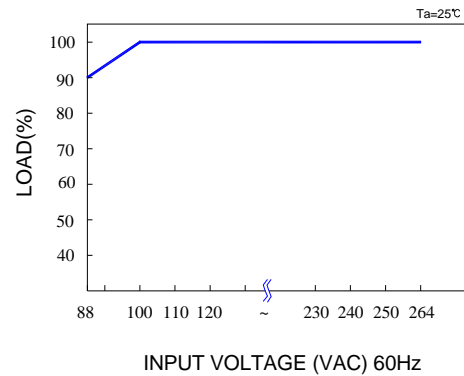
Block Diagram UD2



De-rating Curve

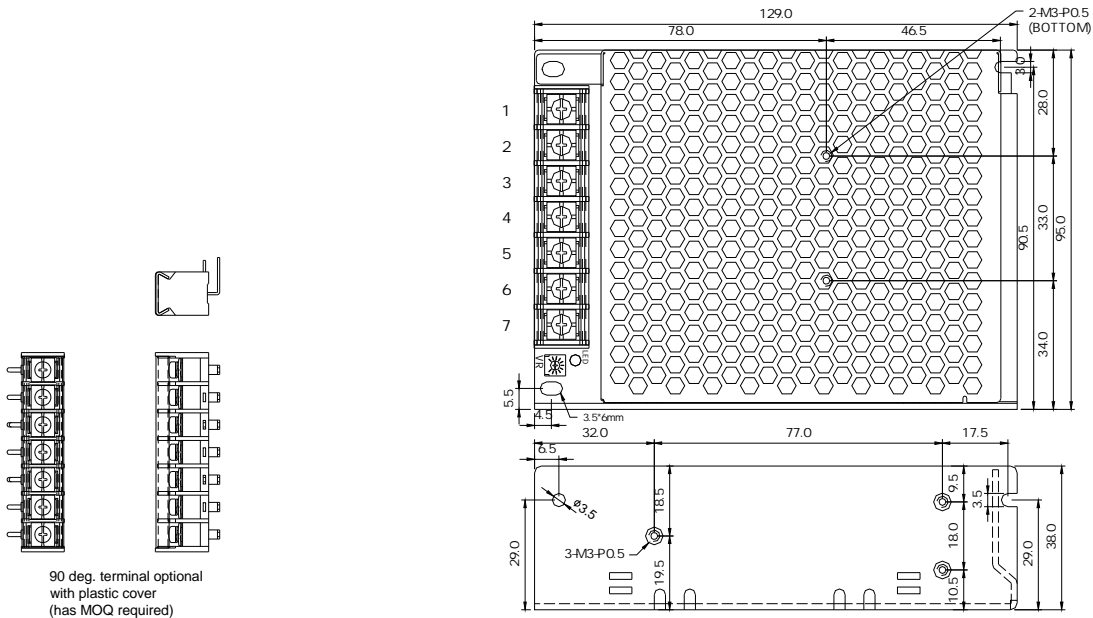


Output De-rating Vs Input Voltage



Dimension:

(Unit: mm)



Terminal Pin. No Assignment

7P, PITCH 9.5mm WITH PC COVER							
MODEL No.	1	2	3	4	5	6	7
SPS-G075-Dx	L	N	PE	V2	GND	GND	V1



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SPS-G075-IDx Series

Dual Output



129 x 95 x 38 mm
 5.08 x 3.74 x 1.50 inch

Features:

V1 & V2 output are isolated
Power ON with LED indicator
Built in EMI filter, low ripple noise
Over voltage protection Shutdown and latch off
Over load short circuit protection Hiccup mode
100% full load burn-in test
-20 ~70 Operating temperature
UL, cUL, TUV, CB, CE approved
3 years warranty

Specification:

INPUT	Voltage	88V ~ 264VAC universal full range or 125V ~ 375VDC.			
	Frequency	47 ----- 63 Hz			
	Current	<1.8A@100V AC input, full load condition			
	Inrush Current	<30A@115V , <50A@230V AC input, Cold start at 25 ambient			
	Leakage Current	<0.75mA@264V AC input			
OUTPUT	MODEL No.	SPS-G075-ID1		SPS-G075-ID2	
	Output	V1	V2	V1	V2
	Voltage	5V	12V	5V	24V
	Min Load	0.3A	0.2A	0.3A	0.2A
	Max Load	8A	5A	8A	2.5A
	Output Tolerance 2	± 3%	± 8%	± 3%	± 8%
	Ripple Noise MAX. 3	70mV	120mV	70mV	200mV
	Efficiency (TYP.)	78%		79%	
Output MAX.	68W		68W		
PROTECTION	Over Voltage	V1 5.8 ~ 7.0V Shutdown and latch off, recover after re-start up.			
	Over Load Short Circuit	When power supply over 105%~ 150% max load or short circuit acted, power supply will go into hiccup mode and recover automatically after the fault is removed.			
ELEC. CHAR.	Rise time	<30mS			
	Hold up time	>60mS@230V, full load condition			
	Setup time	<1 Sec@100 240V AC			
ENVIRONMENT	Temperature 4	Operating: -20 ~ +70 ; De-rating: 45 ~ 70 : 2.5%/ ; Storage: -40 ~ +85			
	Humidity	Operating: 20% ~ 90% RH (non condensing) ; Storage: 10% ~ 95% RH (non condensing)			
SAFETY	Withstand voltage	I/P-O/P:3KVAC, I/P-PE:1.5KVAC, O/P-PE:0.5KVAC, 1minute			
	Isolation resistance	I/P-O/P, I/P-PE, O/P-PE 100M /500VDC at 25 / 70% RH			
	Safety standard	UL 60950-1 2 nd , CSA C22.2 No. 60950-1-07 2 nd , TUV EN 60950-1:2006, IEC 60950-1:2005, approved.			
EMC	EMI	EN 55022 CLASS B, FCC CFR 47 PART 15 CLASS B, CNS 13438 CLASS B. Compliance to EN61000-3-2 CLASS A, EN61000-3-3			
	EMS	EN 55024 EN 61000-4-2,3,4,5,6,8,11			
OTHERS	Cooling	Natural cooling.			
	M.T.B.F.	299K hours			
	Terminal pitch	7P / 9.5mm with plastic cover, 90 deg terminal optional (with MOQ)			
NOTE	Packing	N.W.: 0.46Kg / pc ; 30pcs / 1.20 CUFT / 1 CTN			
	1	All measurements which not mentioned are based on 230VAC input, output Max at ambient 25 / 70%RH			
	2	Output tolerance included set up voltage, line regulation and load regulation. The regulation is measured between 20%-100% max load of each output, Total output t must under output Max .			
	3	Ripple & noise are measured at 100 254VAC input with 0 50 condition and 20MHz of bandwidth by using a 10 15 twisted pair-wire terminated with a 0.1uF & a 47uF parallel capacitor.			
	4	The operating temperature shall follow the de-rating curve in spec The output load may be requested for decreasing as de-rating curve in spec when low input voltage is under 100VAC.			
5	The power supply is considered a component of end-equipment. The end-equipment must be re-confirmed whether comply with EMC directives.				



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SPS-G075-Qx Series

Quad Output



129 x 95 x 38 mm
 5.08 x 3.74 x 1.50 inch

Features:

Power ON with LED indicator
Built in EMI filter, low ripple noise
Over voltage protection Shutdown and latch off
Over load short circuit protection Hiccup mode
100% full load burn-in test
-20 ~70 Operating temperature
UL, cUL, TUV, CB, CE approved
3 years warranty

Specification:

INPUT	Voltage	88V ~ 264VAC universal full range or 125V ~ 375VDC.											
	Frequency	47 ----- 63 Hz											
	Current	<1.8A@100V AC input, full load condition											
	Inrush Current	<30A@115V , <50A@230V AC input, Cold start at 25 ambient											
	Leakage Current	<0.75mA@264V AC input											
OUTPUT	MODEL No.	SPS-G075-Q1				SPS-G075-Q3				SPS-G075-Q4			
	Output	V1	V2	V3	V4	V1	V2	V3	V4	V1	V2	V3	V4
	Voltage	5V	12V	-5V	-12V	5V	12V	24V	-12V	5V	15V	24V	-15V
	Min Load	0.5A	0.2A	0A	0A	0.5A	0.2A	0.1A	0A	0.5A	0.2A	0.1A	0A
	Max Load	8A	3A	1A	1A	8A	3A	1.5A	1A	8A	3A	1.5A	1A
	Output Tolerance ²	±3%	±7%	±5%	±5%	±3%	±7%	±7%	±5%	±3%	±7%	±7%	±5%
	Ripple Noise MAX. ³	70mV	120mV	100mV	100mV	70mV	120mV	200mV	100mV	70mV	150mV	200mV	100mV
	Efficiency (TYP.)	76%				78%				78%			
	Output MAX.	65W				68W				68W			
	Note	* SPS-G075-Tx without V3 or V4											
PROTECTION	Over Voltage	V1 5.8 ~ 7.0V Shutdown and latch off, recover after re-start up.											
	Over Load Short Circuit	When power supply over 105%~ 150% max load or short circuit acted, power supply will go into hiccup mode and recover automatically after the fault is removed.											
ELEC. CHAR.	Rise time	<30mS											
	Hold up time	>60mS@230V, full load condition											
	Setup time	<1 Sec@100 240V AC											
ENVIRONMENT	Temperature ⁴	Operating: -20 ~ +70 ; De-rating: 45 ~ 70 : 2.5%/ ; Storage: -40 ~ +85											
	Humidity	Operating: 20% ~ 90% RH (non condensing) ; Storage: 10% ~ 95% RH (non condensing)											
SAFETY	Withstand voltage	I/P-O/P:3KVAC, I/P-PE:1.5KVAC, O/P-PE:0.5KVAC, 1minute											
	Isolation resistance	I/P-O/P, I/P-PE, O/P-PE 100M /500VDC at 25 /70% RH											
	Safety standard	UL 60950-1 2 nd , CSA C22.2 No. 60950-1-07 2 nd , TUV EN 60950-1:2006, IEC 60950-1:2005, approved.											
EMC	EMI	EN 55022 CLASS B, FCC CFR 47 PART 15 CLASS B, CNS 13438 CLASS B.											
		Compliance to EN61000-3-2 CLASS A, EN61000-3-3											
	EMS	EN 55024 EN 61000-4-2,3,4,5,6,8,11											
OTHERS	Cooling	Natural cooling.											
	M.T.B.F.	240K hours											
	Terminal pitch	8P / 8.25mm with plastic cover, 90 deg terminal optional (with MOQ)											
	Packing	N.W.: 0.47Kg / pc ; 30pcs / 1.20 CUFT / 1 CTN											

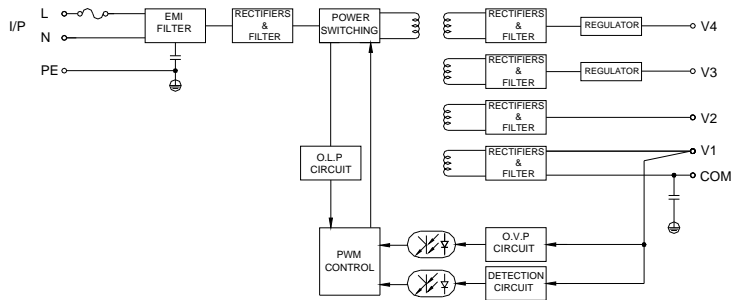
NOTE	1	All measurements which not mentioned are based on 230VAC input, output Max at ambient 25 / 70%RH
	2	Output tolerance included set up voltage, line regulation and load regulation. The regulation is measured at the condition when any of output is with 20% ~ 100% max load and the rest of each outputs are with 60% max load , Each output could work within max load but must under total output max .
	3	Ripple & noise are measured at 100 254VAC input with 0 50 condition and 20MHz of bandwidth by using a 10 15 twisted pair-wire terminated with a 0.1uF & a 47uF parallel capacitor.
	4	The operating temperature shall follow the de-rating curve in spec The output load may be requested for decreasing as de-rating curve in spec when low input voltage is under 100VAC.
	5	The power supply is considered a component of end-equipment. The end-equipment must be re-confirmed whether comply with EMC directives.



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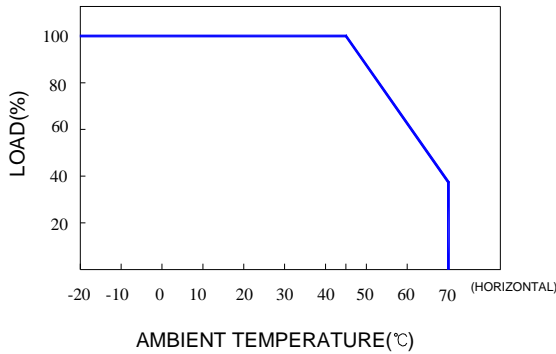
SPS-G075-Qx Series

Block Diagram UQ4

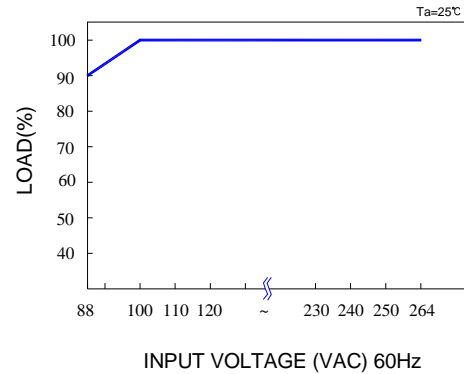


SPS-G075-Q3 Q4 V3 without regulator

De-rating Curve

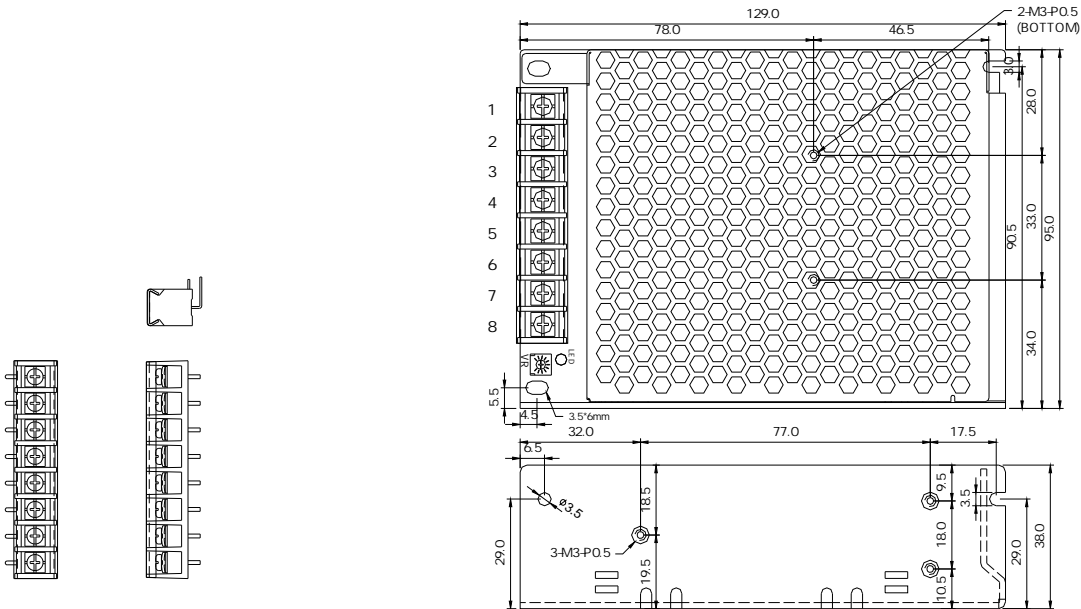


Output De-rating Vs Input Voltage



Dimension:

(Unit: mm)



90 deg. terminal optional
 with plastic cover
 (has MOQ required)

Terminal Pin. No Assignment

8P, PITCH 8.25mm WITH PC COVER								
MODEL No.	1	2	3	4	5	6	7	8
SPS-G075-Qx	L	N	PE	V4	V3	GND	V2	V1