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Quality System

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DIN Rail Power Supplies

DIN Rail Power Supplies

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In response to a growing market for high power regulated Power Supplies, Altech introduced the new Din Rail mountable power supply line. They are reliable, cost effective, space economical and easy to install and maintain. They are able to handle any industrial process requirement. In addition, you do not need to oversize them; they are designed to work on 100% load capacity. The universal input, power factor correction and many approvals proves that Altech Power Supplies will function worldwide on a wide variety of applications. Wide operation temperature range, high efficiency and many protections make Altech Power supplies your best choice.

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DIN Rail Power Supplies

Selection Guide

Choose your product from a wide range of features and options, suitable for almost all applications.

	Cat. No. / VDC	Rated Current 5	12	15	24	48	Universal Input	Switch Select Input	Parallel Option	UL 508 Listed	UL 60950-1 Rec.	UL 1310 Rec.	EN 60950-1	NEC Class 2 Compliant	DC OK	Short Circuit	Overload	Over Voltage	Over Temperature	CB
PSC Class 2 Compact	PSC-10xx	–	0.84A	0.67A	0.42A	–	■			■		■	■	■	■	■	■	■	■	
	PSC-20xx	–	1.7A	1.4A	1A	–	■			■		■	■	■	■	■	■	■	■	
	PSC-40xx	–	3.4A	2.7A	1.7A	0.85A	■			■		■	■	■	■	■	■	■	■	
	PSC-60xx	–	4A	5A	2.5A	1.25A	■			■		■	■	■	■	■	■	■	■	
	PSC-96xx	–	7.5A	6.4A	4A	2A	■			■		■	■	■	■	■	■	■	■	
	PSC-151xx	–	–	–	6.3A	3.2A	■			■			■		■	■	■	■	■	
	PSC-241xx	–	–	–	10A	5A	■			■			■		■	■	■	■	■	
	PSC-481xx	–	–	–	20A	10A	■			■			■		■	■	■	■	■	
	PSC-RM20	–	–	–	20A	–														
PSA & PSB Flex SINGLE PHASE	PSA-120xx	–	–	–	5A	–		■		■			■		■	■	■	■	■	
	PSA-180xx	–	–	–	7.5A	–		■		■			■		■	■	■	■	■	
	PSA-360xx	–	–	–	14A	–		■	■	■			■		■	■	■	■	■	
	PSA-600xx	–	–	–	25A	–		■	■	■			■		■	■	■	■	■	
PSA & PSB Flex TWO (THREE) PHASE	PSB-120xx	–	–	–	5A	–		■		■			■		■	■	■	■	■	
	PSB-180xx	–	–	–	7.5A	–		■		■			■		■	■	■	■	■	
	PSB-360xx	–	–	–	14A	–		■	■	■			■		■	■	■	■	■	
	PSB-600xx	–	–	–	25A	–			■	■			■		■	■	■	■	■	
PS-S Slimine SINGLE PHASE	PS-S10xx	2A	0.84A	0.67A	0.42A	–	■			■				■	■	■	■	■		■
	PS-S20xx	3A	1.67A	1.34A	1	–	■			■				■	■	■	■	■		■
	PS-S40xx	6A	3.33A	–	1.7A	0.83A	■			■	■			■	■	■	■	■		■
	PS-S60xx	10A	5A	–	2.5A	1.25A	■			■	■			■	■	■	■	■		■
	PS-S100xx	–	7.5A	–	4A	2A	■			■				■	■	■	■	■	■	■
PS Low Profile SINGLE PHASE	PS-15xx	2.4A	1.25A	1A	0.63A	–	■				■				■	■	■	■		■
	PS-30xx	3A	2A	2A	1.5A	–	■				■				■	■	■	■		■
	PS-45xx	5A	3.5A	2.8A	2A	–	■			■					■	■	■	■	■	■
	PS-60xx	6.5A	4.5A	4A	2.5A	–	■				■				■	■	■	■		■
	PS-100xx	–	7.5A	6.5A	4.2A	–	■				■				■	■	■	■	■	■

For the latest on Altech Power Supply specifications please visit www.altechcorp.com/power.

Selection Guide

Choose your product from a wide range of features and options, suitable for almost all applications.

	Cat. No. / VDC	Output Voltage 5	12	15	24	48	Universal Input	Switch Select Input	Parallel Option	UL 508 Listed	UL 60950-1 Rec.	UL 1310 Rec.	EN 60950-1	NEC Class 2 Compliant	DC OK	Short Circuit	Overload	Over Voltage	Over Temperature	CB
PS Industrial SINGLE PHASE	PS-75xx	–	6.3A	–	3.2A	1.6A														
	PS-120xx	–	10A	–	5A	2.5A														
	PSH-120xx	–	–	–	5A	2.5A														
	PSP-240xx	–	–	–	10A	5A														
	PSP-480xx	–	–	–	20A	10A														
	PSP-480Sxx	–	–	–	20A	10A														
PS Industrial THREE PHASE	PST-240xx	–	–	–	10A	5A														
	PST-480xx	–	–	–	20A	10A														
	PST-960xx	–	–	–	40A	20A														
	PST-960Pxx	–	–	–	40A	20A														
Compact Housing SINGLE PHASE	PS-C120xx	–	10A	–	5A	2.5A														
	PS-C240xx	–	–	–	10A	5A														
	PSH-C480xx	–	–	–	20A	10A														
	PSP-C480Pxx	–	–	–	20A	10A														
Compact Housing WIDE VOLTAGE	PSW-120xx	–	10A	–	5A	2.5A														
	PSW-240xx	–	–	–	10A	5A														
	PSW-480Pxx	–	–	–	20	10														
DC-UPS	CBI12xx	–	3-25A	–	–	–														
	CBI24xx	–	–	–	3-20A	–														
	CBI48xx	–	–	–	–	5-10A														
	CBI280 xx		12V/15A 24V/10A MULTI-VOLTAGE		36V/7A 48V/5A MULTI-VOLTAGE															
Battery Charger	CB12xx	–	3-35A	–	–	–														
	CB24xx	–	–	–	3-20A	–														
	CB12245A	–	6 A	–	5 A	–														
Acces.	PS-RDN	21-28V																		
	PS-UPS	21-28V																		

Three Phase Input

220V INPUT ONLY

Wide Range Input

Selected items, see data sheet

Special order item / not UL approved.

DC OK signal

Compact Single Phase Power Supply (PSC)

ALTECH's Compact DIN rail switching power supply, PSC Series designed for the fast growing demand of DIN rail applications. These 10W to 480W models are enclosed with fully isolated plastic or metal case to prevent users from hazardous shock. The design complies with the compact requirements that the precious space on the industrial rail can be preserved effectively. Featuring up to 94% of efficiency, this series is cooled only by free air convection up to 70°C that significantly increase the reliability and lifetime of the power supply. Another important feature of PSC Series is its low power consumption (<0.75W) This unique characteristic can significantly expand the application of PSC series beyond just heavy industrial field, but can also be implied to dotcom or IT applications that require green power to save the energy and to obey the anticipated government laws in the near future!

Short circuit protection, overload protection, over voltage protection, and the DC OK signal for monitoring the status of power supply are standard functions for the PSC Series. Typical applications include factory automation, process control, electro-mechanical industry, dotcom and IT.

• Input voltage range:	85-264V AC; 120-370V DC
• AC inrush current (max): Cold start:	20A at 115V AC; 40A at 230V AC
• DC adjustment range:	±10% rated output voltage
• Overload protection:	105% rated output power
• Over-voltage protection:	115%-150% rated output voltage
• Other protection:	Brown out protection
• Setup, rise, time (max):	500ms, 30ms/230V AC
	1000ms, 30ms/115V AC, at full load
• Withstand voltage:	I/P-O/P: 3KV AC, I/P-FG:1.5KV AC, O/P-FG:0.5KV AC
• Working temperature:	-20 to +70°C (-4° to +158°F), refer to output
	de-rating curve
• Safety standards:	UL508 listed, UL1310 recognized, TUV approved
	EN60950-1 compliant
• EMC standards:	EN55022 class B
	EN61000-4-2,3,4,5,6,8,11
	ENV50204; EN55024; EN61000-6-1; EN61204-3;
	Light Industry Level criteria A
• Military Standard	MIL-HDBK-217F
• Vibration	withstands 2G test
• On/Off	Built in remote ON/OFF function (metal case only)

Compact Single Phase Power Supply (PSC)

Features:

- Universal AC input/Full range
- Protections: Short circuit / Overload / Overvoltage
- Cooling by free air convection
- DIN rail mountable
- UL1310
- NEC class 2 / LPS compliant (12V,24V,48V only)
- No load power consumption <0.75W
- LED indicator for power on
- 100% full load burn-in test
- DC OK relay contact
- 3 year warranty

Compact Single Phase Power Supply (PSC)

E361935

E205412

10W Single Output Industrial DIN Rail Power Supply

Cat. No.	Output V DC	A	Tol. %	Ripple & Noise	Efficiency	NOTES
PSC-1012	12V DC	0.84A	±1%	100 mVp-p	81%	
PSC-1015	15V DC	0.67A	±1%	100 mVp-p	81%	
PSC-1024	24V DC	0.42A	±1%	120 mVp-p	81%	

20W Single Output Industrial DIN Rail Power Supply

Cat. No.	Output V DC	A	Tol. %	Ripple & Noise	Efficiency	NOTES
PSC-2012	12V DC	1.7A	±1%	100 mVp-p	83%	
PSC-2015	15V DC	1.4A	±1%	100 mVp-p	85%	
PSC-2024	24V DC	1A	±1%	120 mVp-p	86%	

40W Single Output Industrial DIN Rail Power Supply

Cat. No.	Output V DC	A	Tol. %	Ripple & Noise	Efficiency	NOTES
PSC-4012	12V DC	3.4A	±1%	100 mVp-p	84%	
PSC-4015	15V DC	2.7A	±1%	100 mVp-p	84%	
PSC-4024	24V DC	1.7A	±1%	120 mVp-p	84%	
PSC-4048	48V DC	0.85A	±1%	180 mVp-p	85%	

60W Single Output Industrial DIN Rail Power Supply

Cat. No.	Output V DC	A	Tol. %	Ripple & Noise	Efficiency	NOTES
PSC-6012	12V DC	5A	±1%	100 mVp-p	86%	
PSC-6015	15V DC	4A	±1%	100 mVp-p	87%	
PSC-6024	24V DC	2.5A	±1%	120 mVp-p	87%	
PSC-6048	48V DC	1.25A	±1%	180 mVp-p	88%	

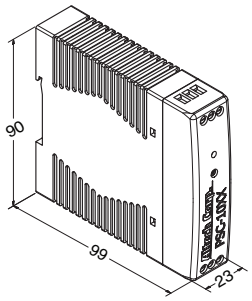
96W Single Output Industrial DIN Rail Power Supply

Cat. No.	Output V DC	A	Tol. %	Ripple & Noise	Efficiency	NOTES
PSC-9612*	12V DC	7.5A	±1%	180 mVp-p	87%	
PSC-9615*	15V DC	6.4A	±1%	180 mVp-p	87%	
PSC-9624	24V DC	4A	±1%	180 mVp-p	88%	
PSC-9648	48V DC	2A	±1%	250 mVp-p	87%	

*Not included in UL file E361915

SPECIFICATIONS

PSC-10 Series



Terminal Pin. No Assign. (TB1)

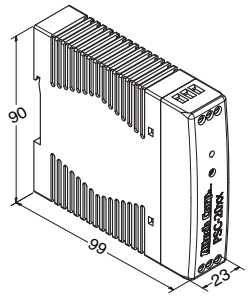
Pin No.	Assignment
1	FG ⏚
2	AC/N
3	AC/L

Terminal Pin. No Assign. (TB2)

Pin No.	Assignment
4	DC OUTPUT +V
5	DC OUTPUT -V
6	DC OK SIGNAL

Universal Input: 88-264V AC, 124-370V DC full range;
0.23A @ 110V AC; 0.17A @ 230V AC
Connection: Input - 2 poles, Output – 2 poles, single screw terminal
Size (WxHxD): 23x90x99mm (0.9x3.54x3.94 inches)
Packaging: 1/box; 0.29lbs / 0.13Kg

PSC-20 Series



Terminal Pin. No Assign. (TB1)

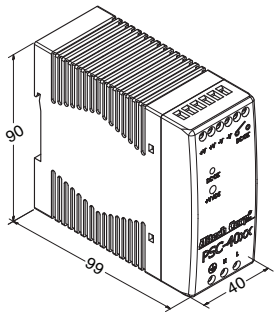
Pin No.	Assignment
1	FG ⏚
2	AC/N
3	AC/L

Terminal Pin. No Assign. (TB2)

Pin No.	Assignment
4	DC OUTPUT +V
5	DC OUTPUT -V
6	DC OK SIGNAL

Universal Input: 88-264V AC, 124-370V DC full range;
0.45A @ 110V AC; 0.32A @ 230V AC
Connection: Input - 2 poles, Output – 2 poles, single screw terminal
Size (WxHxD): 23x90x99mm (0.9x3.54x3.94 inches)
Packaging: 1/box; 0.32lbs / 0.14Kg

PSC-40 Series



Terminal Pin. No Assign. (TB1)

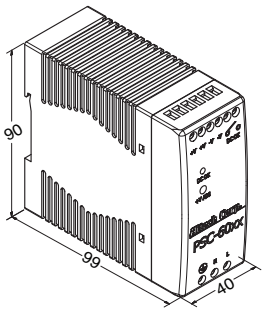
Pin No.	Assignment
1	FG ⏚
2	AC/N
3	AC/L

Terminal Pin. No Assign. (TB2)

Pin No.	Assignment
1/2	DC OUTPUT +V
3/4	DC OUTPUT -V
5/6	DC OK Relay Contact

Universal Input: 88-264V AC, 124-370V DC full range;
0.8A @ 115V AC, 0.4A @ 230V AC
Connection: Input - 2 poles, Output – 2 poles, double screw terminal
Size (WxHxD): 40x90x99mm (1.57x3.54x3.94 inches)
Packaging: 1/box; 0.63lbs / 0.28Kg

PSC-60 Series



Terminal Pin. No Assign. (TB1)

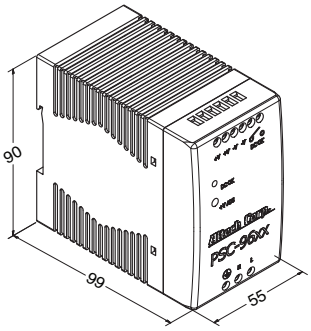
Pin No.	Assignment
1	FG ⏚
2	AC/N
3	AC/L

Terminal Pin. No Assign. (TB2)

Pin No.	Assignment
1/2	DC OUTPUT +V
3/4	DC OUTPUT -V
5/6	DC OK Relay Contact

Universal Input: 88-264V AC, 124-370V DC full range;
1.3A @ 115V AC, 0.6A @ 230V AC
Connection: Input - 2 poles, Output – 2 poles, double screw terminal
Size (WxHxD): 40x90x99mm (1.57x3.54x3.94 inches)
Packaging: 1/box; 0.67lbs / 0.3Kg

PSC-96 Series



Terminal Pin. No Assign. (TB1)

Pin No.	Assignment
1	FG ⏚
2	AC/N
3	AC/L

Terminal Pin. No Assign. (TB2)

Pin No.	Assignment
1/2	DC OUTPUT +V
3/4	DC OUTPUT -V
5/6	DC OK Relay Contact

Universal Input: 88-264V AC, 124-370V DC full range;
1.1A @ 115V AC, 0.55A @ 230V AC
Connection: Input - 2 poles, Output – 2 poles, double screw terminal
Size (WxHxD): 55x90x99mm (2.17x3.54x3.94 inches)
Packaging: 1/box; 0.9lbs / 0.4Kg

PSC-10 Series

TÜV Type Approved · E361935 · E205412

Features:

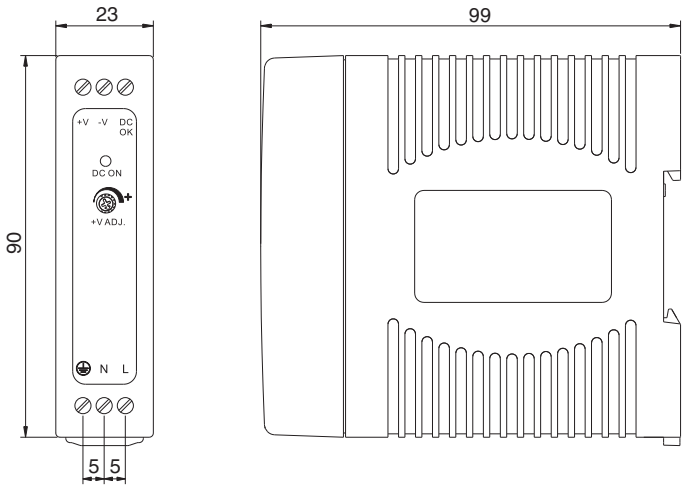
- Universal AC input (88-264V AC)
- Protections: Short Circuit / Overload / Overvoltage
- Brown-out protection
- Installed on DIN rail TS35 / 7.5 or 15
- True DC OK signal output
- All wiring 105°C long life electrolytic capacitors
- High operation temperature up to 70°C
- Withstands 2G vibration test
- High efficiency, long life and high reliability
- 3 year warranty
- UL1310 Class 2 Power unit / LPS pass
- UL508 (Industrial control equipment) listed

	Cat. No.	PSC-1012	PSC-1015	PSC-1024
OUTPUT	DC VOLTAGE	12V	15V	24V
	RATED CURRENT	0.84A	0.67A	0.42A
	CURRENT RANGE	0~0.84A	0~0.67A	0~0.42A
	RATED POWER	10.08W	10.05W	10.08W
	RIPPLE & NOISE (max)	100mVp-p	100mVp-p	120mVp-p
		Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF & 47μF parallel capacitor		
	VOLTAGE ADJ. RANGE	10.8~13.2V	13.5~16.5V	21.6~26.4V
	VOLTAGE TOLERANCE	±1.0%	±1.0%	±1.0%
		Tolerance: includes set up tolerance, line regulation and load regulation.		
	LINE REGULATION	±1.0%	±1.0%	±1.0%
	LOAD REGULATION	±1.0%	±1.0%	±1.0%
	SETUP, RISE TIME	< 800ms, < 100ms/230V AC at full load		
	HOLD UP TIME (Typ.)	> 32ms / 230V AC; > 16ms / 115V AC at full load		
INPUT	VOLTAGE RANGE	88V~264VAC; 124V~370VDC		
		Derating may be needed under low input voltages. Please check the derating curve for more details.		
	FREQUENCY RANGE	47~63Hz		
	EFFICIENCY (Typ.)	81%	81%	81%
	AC CURRENT (Typ.)	0.23A/115VAC; 0.17A/230VAC		
	INRUSH CURRENT (Typ.)	15A / 115V AC; 30A / 230V AC		
	LEAKAGE CURRENT	< 1mA/ 230VAC		
PROTECTION	OVERLOAD PROTECTION	> 102% rated output power		
		Protection type: Constant current limiting, recovers automatically after fault condition is removed.		
	OVERVOLTAGE PROTECTION	115%~150% rated output voltage		
		Protection type: Latch-off mode.		
	OVER TEMPERATURE PROTECTION	Power supply shut down at 70˚C constant current limiting / output voltage goes to 0; re-power on to recover		
ENVIRONMENT	WORKING TEMP.	-20 ~ +70˚C (Refer to output load derating curve)		
	WORKING HUMIDITY	20 ~ 90% RH non-condensing		
	STORAGE TEMP. / HUMIDITY	-40 ~ +85˚C; 10 ~ 95% RH		
	TEMP. COEFFICIENT	±0.03% / ˚C (0 ~ 50˚C)		
	VIBRATION	10 ~ 500Hz, 2G 10min. / 1cycle, 60 min. each long X,Y, Z axes		
SAFETY & EMC	SAFETY STANDARDS	UL508, TUV EN60950-1:2006+A11, UL1310 NEC class 2 compliant		
	WITHSTAND VOLTAGE	I/P-O/P: 3KVAC (4242DC) I/P-FG: 1.5KVAC (2121DC) 1 minute		
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500VDC		
	EMI CONDUCTION & RADIATION	EN55022:2006+A1:2007 Class B		
	HARMONIC CURRENT	EN61000-3-2:2006 Class A, EN61000-3-3:2008		
	EMS IMMUNITY	EN61204-3:2000, EN55024:1998+A1:2001+A2:2003 light industry level, criteria A		
		The power supply is considered a component which will installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.		
OUTPUT	DC OK Signal	Open collector. Max: 40mA		
	MTBF	562.7K hrs MIL-HDBK-217K		
	DIMENSION	23x90x99 mm (WxHxD)		
	PACKING	0.13Kg/48 pcs. / 7.44Kg		
	CONNECTION	I/P 3 poles, O/P: 3 poles screw DIN terminal		
	COOLING	Free air convection		
		All parameters NOT specially mentioned are measured at 230V AC input, rated load and 25˚C of ambient temperature.		

PSC-10 Series

Mechanical Specification

Unit : mm / inch



Terminal Pin. No Assign. (TB1)

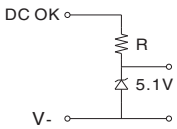
Pin No.	Assignment
1	FG ⏚
2	AC/N
3	AC/L

Terminal Pin. No Assign. (TB2)

Pin No.	Assignment
4	DC OUTPUT +V
5	DC OUTPUT -V
6	DC OK SIGNAL

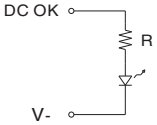
Application of DC OK Active Signal

(a)5V signal



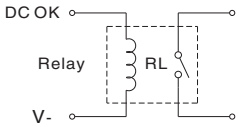
Model	R
12V	≥1.5KΩ
15V	≥2KΩ
24V	≥3.9KΩ

(b)LED



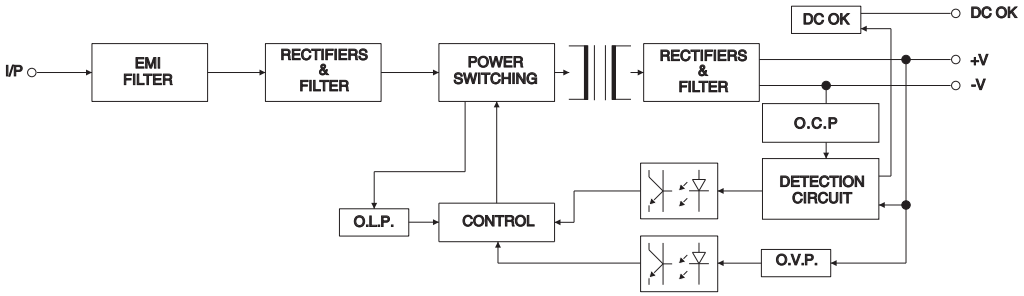
Model	R
12V	≥2.4KΩ
15V	≥3KΩ
24V	≥4.7KΩ

(c)Relay



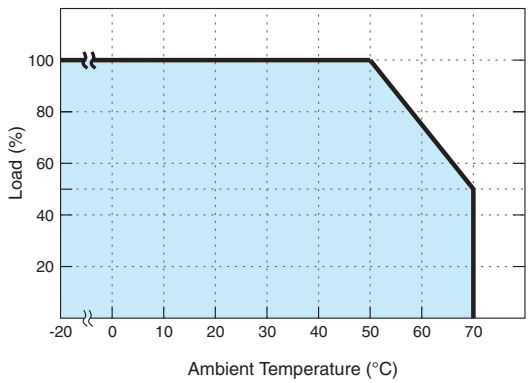
Model	R
12V	≥700Ω
15V	≥700Ω
24V	≥1.2KΩ

Block Diagram

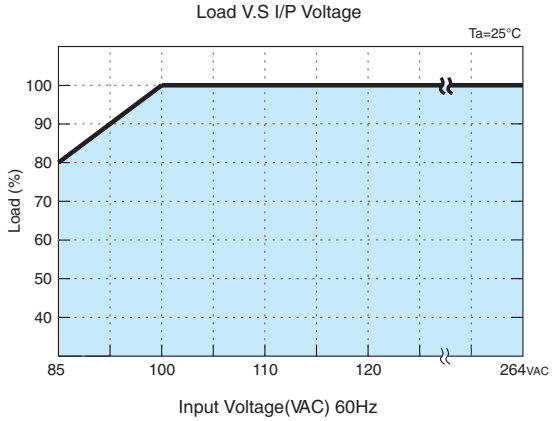


Derating Curve

Load V.S Temp.



Load V.S I/P Voltage



Note: All dimensions are in millimeters, to convert to inches multiply by 0.03937.

PSC-20 Series

E361935 E205412

Features:

- Universal AC input (88-264V AC)
- Protections: Short Circuit / Overload / Overvoltage
- Brown-out protection
- Installed on DIN rail TS35 / 7.5 or 15
- True DC OK signal output
- All wiring 105°C long life electrolytic capacitors
- High operation temperature up to 70°C
- Withstands 2G vibration test
- High efficiency, long life and high reliability
- 3 year warranty
- UL1310 Class 2 Power unit / LPS pass
- UL508 (Industrial control equipment) listed

OUTPUT

Cat. No.	PSC-2012	PSC-2015	PSC-2024
DC VOLTAGE	12V	15V	24V
RATED CURRENT	1.7A	1.4A	1A
CURRENT RANGE	0~1.7A	0~1.4A	0~1A
RATED POWER	20.4W	21W	24W
RIPPLE & NOISE (max)	100mVp-p	100mVp-p	120mVp-p
	Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF & 47μF parallel capacitor		
VOLTAGE ADJ. RANGE	10.8~13.2V	13.5~16.5V	21.6~26.4V
VOLTAGE TOLERANCE	±1.0%	±1.0%	±1.0%
	Tolerance: includes set up tolerance, line regulation and load regulation.		
LINE REGULATION	±1.0%	±1.0%	±1.0%
LOAD REGULATION	±1.0%	±1.0%	±1.0%
SETUP, RISE TIME	< 800ms, < 100ms/230V AC at full load		
HOLD UP TIME (Typ.)	> 32ms / 230V AC; > 16ms / 115V AC at full load		

INPUT

VOLTAGE RANGE	88V~264VAC; 124V~370VDC		
	Derating may be needed under low input voltages. Please check the derating curve for more details.		
FREQUENCY RANGE	47~63Hz		
EFFICIENCY (Typ.)	83%	85%	86%
AC CURRENT (Typ.)	0.45A/115VAC; 0.32A/230VAC		
INRUSH CURRENT (Typ.)	20A / 115V AC; 40A / 230V AC		
LEAKAGE CURRENT	< 1mA/ 230VAC		

PROTECTION

OVERLOAD PROTECTION	> 105% rated output power
	Protection type: Constant current limiting, recovers automatically after fault condition is removed.
OVERVOLTAGE PROTECTION	115%~150% rated output voltage
	Protection type: Latch-off mode.
OVER TEMPERATURE PROTECTION	Power supply shut down at 70˚C constant current limiting / output voltage goes to 0; re-power on to recover

ENVIRONMENT

WORKING TEMP.	-20 ~ +70˚C (Refer to output load derating curve)
WORKING HUMIDITY	20 ~ 90% RH non-condensing
STORAGE TEMP. / HUMIDITY	-40 ~ +85˚C; 10 ~ 95% RH
TEMP. COEFFICIENT	±0.03% / ˚C (0 ~ 50˚C)
VIBRATION	10 ~ 500Hz, 2G 10min. / 1cycle, 60 min. each long X,Y, Z axes

SAFETY & EMC

SAFETY STANDARDS	UL508, TUV EN60950-1:2006+A11, UL1310 NEC class 2 compliant
WITHSTAND VOLTAGE	I/P-O/P: 4242DC I/P-FG: 2121DC 1 minute
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500VDC
EMI CONDUCTION & RADIATION	EN55022:2006+A1:2007 Class B
HARMONIC CURRENT	EN61000-3-2:2006 Class A, EN61000-3-3:2008
EMS IMMUNITY	EN61204-3:2000, EN55024:1998+A1:2001+A2:2003 light industry level, criteria A
	The power supply is considered a component which will installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

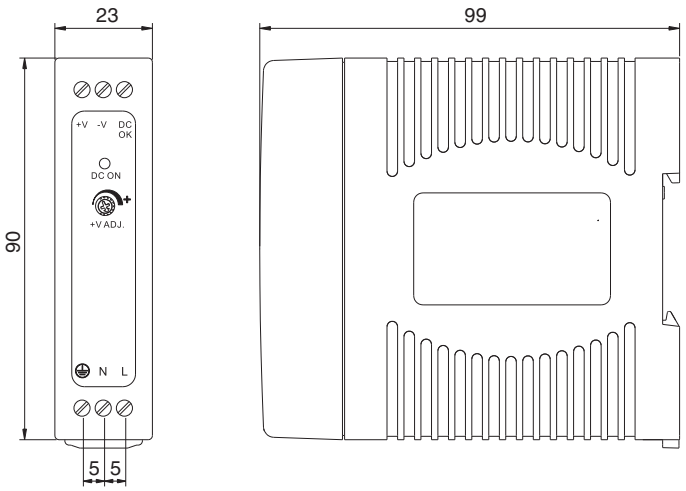
OUTPUT

DC OK Signal	Open collector. Max: 40mA		
MTBF	120.4K HRS MIL-HDBK-217 (25˚C)	131.3K HRS MIL-HDBK-217 (25˚C)	125.9K HRS MIL-HDBK-217 (25˚C)
DIMENSION	23x90x99 mm (WxHxD)		
PACKING	0.14Kg/48 pcs./7.92Kg		
CONNECTION	I/P 3 poles, O/P: 3 poles screw DIN terminal		
COOLING	Free air convection		
	All parameters NOT specially mentioned are measured at 230V AC input, rated load and 25˚C of ambient temperature.		

PSC-20 Series

Mechanical Specification

Unit : mm / inch



Terminal Pin. No Assign. (TB1)

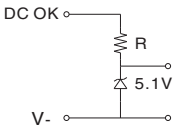
Pin No.	Assignment
1	FG ⏚
2	AC/N
3	AC/L

Terminal Pin. No Assign. (TB2)

Pin No.	Assignment
4	DC OUTPUT +V
5	DC OUTPUT -V
6	DC OK SIGNAL

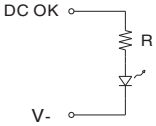
Application of DC OK Active Signal

(a)5V signal



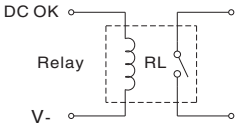
Model	R
12V	≥1.5KΩ
15V	≥2KΩ
24V	≥3.9KΩ

(b)LED



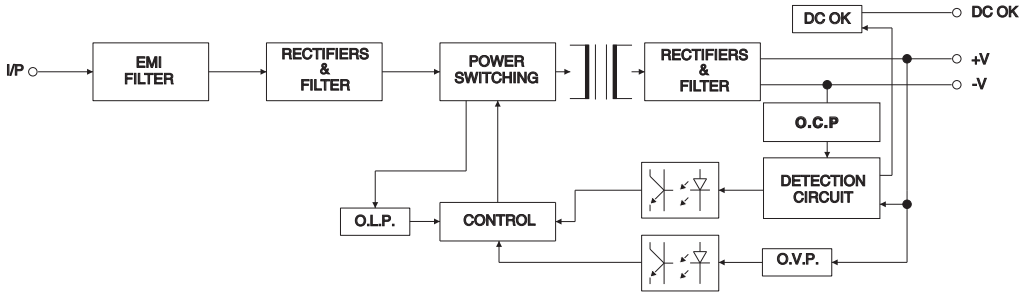
Model	R
12V	≥2.4KΩ
15V	≥3KΩ
24V	≥4.7KΩ

(c)Relay



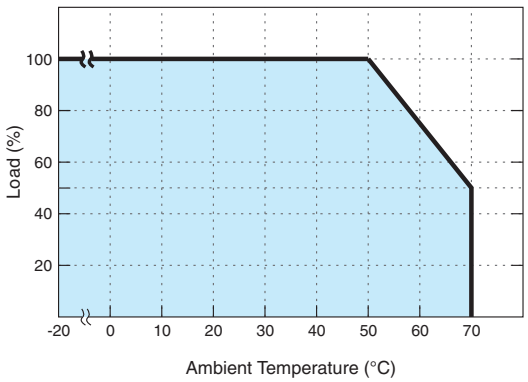
Model	R
12V	≥700Ω
15V	≥700Ω
24V	≥1.2KΩ

Block Diagram

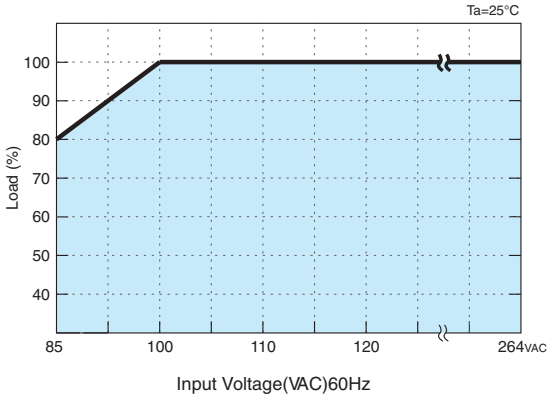


Derating Curve

Load V.S Temp.



Load V.S I/P Voltage



Note: All dimensions are in millimeters, to convert to inches multiply by 0.03937.

PSC-40 Series

E361935 E205412

Features:

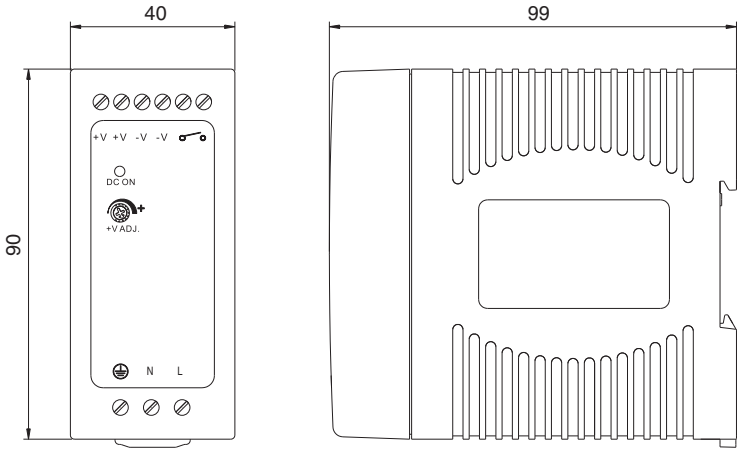
- Universal AC input (88-264V AC)
- Protections: Short Circuit / Overload / Overvoltage
- Brown-out protection
- Installed on DIN rail TS35 / 7.5 or 15
- True DC OK signal output
- All wiring 105°C long life electrolytic capacitors
- High operation temperature up to 70°C
- Withstands 2G vibration test
- High efficiency, long life and high reliability
- 3 year warranty
- UL1310 Class 2 Power unit / LPS pass
- UL508 (Industrial control equipment) listed

	Cat. No.	PSC-4012	PSC-4015	PSC-4024	PSC-4048
OUTPUT	DC VOLTAGE	12V	15V	24V	48V
	RATED CURRENT	3.4A	2.7A	1.7A	0.85A
	CURRENT RANGE	0 ~ 3.4A	0 ~ 2.7A	0 ~ 1.7A	0 ~ 0.85A
	RATED POWER	40.8W	40.5W	40.8W	40.8W
	RIPPLE & NOISE (max)	100mVp-p	100mVp-p	120mVp-p	180mVp-p
		Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF & 47μF parallel capacitor			
	VOLTAGE ADJ. RANGE	10.8 ~ 13.2V	13.5 ~ 16.5V	21.6 ~ 26.4V	43.2 ~ 52.8V
	VOLTAGE TOLERANCE	±1.0%	±1.0%	±1.0%	±1.0%
		Tolerance: includes set up tolerance, line regulation and load regulation.			
	LINE REGULATION	±1.0%	±1.0%	±1.0%	±1.0%
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±1.0%
	SETUP, RISE TIME	< 800ms, < 50ms / 230VAC at full load			
	HOLD UP TIME (Typ.)	> 32ms / 230VAC; >16ms / 115VAC at full load			
INPUT	VOLTAGE RANGE	88 ~ 264VAC; 124 ~ 370VDC			
		Derating may be needed under low input voltages. Please check the derating curve for more details.			
	FREQUENCY RANGE	47~63Hz			
	EFFICIENCY (Typ.)	84%	84%	84%	85%
	AC CURRENT (Typ.)	0.8 A / 115VAC; 0.4A / 230VAC			
	INRUSH CURRENT (Typ.)	COLD START 30A / 115VAC; 60A / 230VAC			
	LEAKAGE CURRENT	< 1mA/ 230VAC			
PROTECTION	OVERLOAD PROTECTION	> 105% rated output power			
		Protection type: Constant current limiting, recovers automatically after fault condition is removed.			
	OVERVOLTAGE PROTECTION	115% ~ 150% rated output voltage			
		Protection type: latch-off mode			
	OVER TEMPERATURE PROTECTION	Power supply shut down at 70˚C constant current limiting / output voltage goes to 0; re-power on to recover			
ENVIRONMENT	WORKING TEMP.	-20 ~ +70˚C (Refer to output load derating curve)			
	WORKING HUMIDITY	20 ~ 90% RH non-condensing			
	STORAGE TEMP. / HUMIDITY	-40 ~ +85˚C; 10 ~ 95% RH			
	TEMP. COEFFICIENT	±0.03% / ˚C (0 ~ 50˚C)			
	VIBRATION	10 ~ 500Hz, 2G 10min. / 1cycle, 60 min. each long X,Y, Z axes			
SAFETY & EMC	SAFETY STANDARDS	UL508, TUV EN60950-1:2006+A11, UL1310 NEC class 2 compliant			
	WITHSTAND VOLTAGE	I/P-O/P: 4242DC I/P-FG: 2121DC 1 minute			
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500VDC			
	EMI CONDUCTION & RADIATION	EN55022: 2006 Class B			
	HARMONIC CURRENT	EN61000-3-2: 2006 Class A, EN61000-3-3: 1995+A1: 2001+A2: 2005			
	EMS IMMUNITY	EN61204-3:2000, EN55024:1998+A1:2001+A2:2003 light industry level, criteria A			
		The power supply is considered a component which will installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.			
OUTPUT	DC OK Signal	Relay contact (30VDC / 1A, 120VAC / 1A)			
	MTBF	947.2K hrs MIL-HDBK-217K			
	DIMENSION	40x90x99 mm (WxHxD)			
	PACKING	0.28Kg/27 pcs./8.76Kg			
	CONNECTION	I/P 3 poles, O/P: 6 poles screw DIN terminal			
	COOLING	Free air convection			
		All parameters NOT specially mentioned are measured at 230V AC input, rated load and 25˚C of ambient temperature.			

PSC-40 Series

Mechanical Specification

Unit : mm / inch



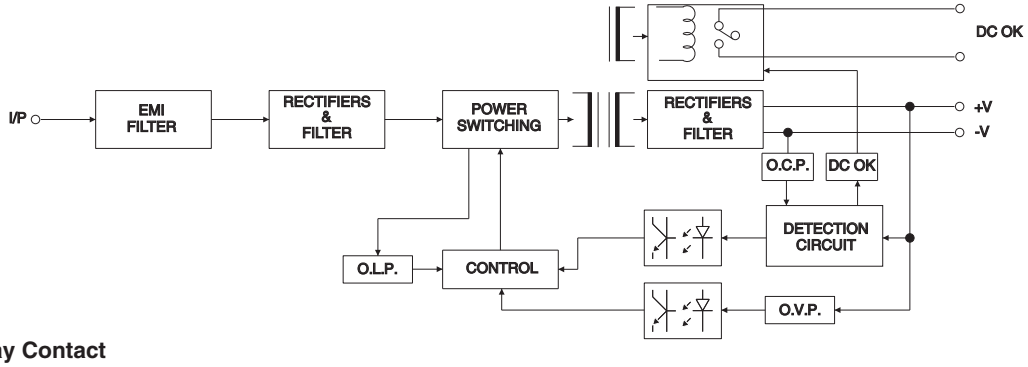
Terminal Pin. No Assign. (TB1)

Pin No.	Assignment
1	FG ⏚
2	AC/N
3	AC/L

Terminal Pin. No Assign. (TB2)

Pin No.	Assignment
1,2	DC OUTPUT +V
3,4	DC OUTPUT -V
5,6	DC OK RELAY CONTACT

Block Diagram

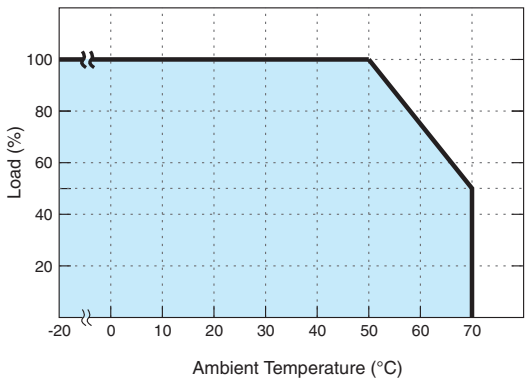


DC OK Relay Contact

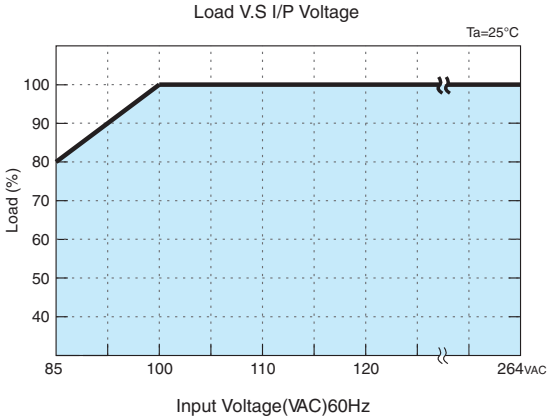
Contact Close	When the output voltage reaches the adjusted output voltage
Contact Open	When the output voltage drop below 90% rated output voltage
Contact Ratings (max.)	30V / 1A resistive load

Derating Curve

Load V.S Temp.



Load V.S I/P Voltage



Note: All dimensions are in millimeters, to convert to inches multiply by 0.03937.

PSC-60 Series

E361935 E205412

Features:

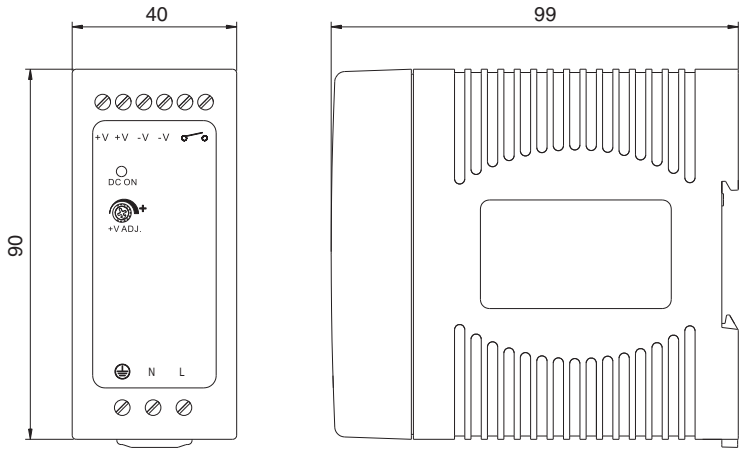
- Universal AC input (88-264V AC)
- Protections: Short Circuit / Overload / Overvoltage
- Brown-out protection
- Installed on DIN rail TS35 / 7.5 or 15
- True DC OK signal output
- All wiring 105°C long life electrolytic capacitors
- High operation temperature up to 70°C
- Withstands 2G vibration test
- High efficiency, long life and high reliability
- 3 year warranty
- UL1310 Class 2 Power unit / LPS pass
- UL508 (Industrial control equipment) listed

	Cat. No.	PSC-6012	PSC-6015	PSC-6024	PSC-6048
OUTPUT	DC VOLTAGE	12V	15V	24V	48V
	RATED CURRENT	5A	4A	2.5A	1.25A
	CURRENT RANGE	0 ~ 5A	0 ~ 4A	0 ~ 2.5A	0 ~ 1.25A
	RATED POWER	60W	60W	60W	60W
	RIPPLE & NOISE (max)	100mVp-p	100mVp-p	120mVp-p	180mVp-p
		Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF & 47μF parallel capacitor			
	VOLTAGE ADJ. RANGE	10.8 ~ 13.2V	13.5 ~ 16.5V	21.6 ~ 26.4V	43.2 ~ 52.8V
	VOLTAGE TOLERANCE	±1.0%	±1.0%	±1.0%	±1.0%
		Tolerance: includes set up tolerance, line regulation and load regulation.			
	LINE REGULATION	±1.0%	±1.0%	±1.0%	±1.0%
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±1.0%
	SETUP, RISE TIME	< 800ms, < 50ms / 230VAC at full load			
		Length of set up time is measured at sold first start. Turning ON/OFF the power supply may lead to increase of the set up time.			
	HOLD UP TIME (Typ.)	> 32ms / 230VAC; >16ms / 115VAC at full load			
INPUT	VOLTAGE RANGE	88 ~ 264VAC; 124 ~ 370VDC			
		Derating may apply in low input voltage. Please check the derating curve for more details.			
	FREQUENCY RANGE	47~63Hz			
	EFFICIENCY (Typ.)	86%	87%	87%	88%
	AC CURRENT (Typ.)	1.3 A / 115VAC; 0.6A / 230VAC			
	INRUSH CURRENT (Typ.)	COLD START 30A / 115VAC; 60A / 230VAC			
	LEAKAGE CURRENT	<1mA / 230VAC			
PROTECTION	OVER LOAD PROTECTION	> 102% rated output power			
		Protection type: Constant current limiting, recovers automatically after fault condition is removed			
	OVER VOLTAGE PROTECTION	115% ~ 150% rated output voltage			
		Protection type: latch-off mode			
	OVER TEMPERATURE PROTECTION	Power supply shut down at 70˚C constant current limiting / output voltage goes to 0; re-power on to recover			
ENVIRONMENT	WORKING TEMP.	-20 ~ +70˚C (Refer to output load derating curve)			
	WORKING HUMIDITY	20 ~ 90% RH non-condensing			
	STORAGE TEMP. / HUMIDITY	-40 ~ +85˚C; 10 ~ 95% RH			
	TEMP. COEFFICIENT	±0.03% / ˚C (0 ~ 50˚C)			
	VIBRATION	10 ~ 500Hz, 2G 10min. / 1cycle, 60 min. each long X,Y, Z axes			
SAFETY & EMC	SAFETY STANDARDS	UL508, TUV EN60950-1:2006+A11, UL1310 NEC class 2 compliant			
	WITHSTAND VOLTAGE	I/P-O/P: 4242DC, I/P-FG: 2121DC 1 minute			
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500VDC			
	EMI CONDUCTION & RADIATION	EN55022: 2006 Class B			
	HARMONIC CURRENT	EN61000-3-2: 2006 Class A, EN61000-3-3: 1995+A1: 2001+A2: 2005			
	EMS IMMUNITY	EN61204-3: 2000, EN55024: 1998+A1:2001+A2: 2003 light industry level, criteria A			
		The power supply is considered a component which will installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.			
OUTPUT	DC OK Signal	Relay contact (24VDC / 1A, 120VAC / 1A)			
	MTBF	944.6K HRS MIL-HDBK-217F			
	DIMENSION	40x90x99 mm (WxHxD)			
	PACKING	0.3kg; 27pcs / 9.3kg			
	CONNECTION	I/P: 3 poles, O/P: 6 poles screw DIN terminal			
	COOLING	Free air convection			
		All parameters NOT specially mentioned are measured at 230V AC input, rated load and 25˚C of ambient temperature.			

PSC-60 Series

Mechanical Specification

Unit : mm / inch



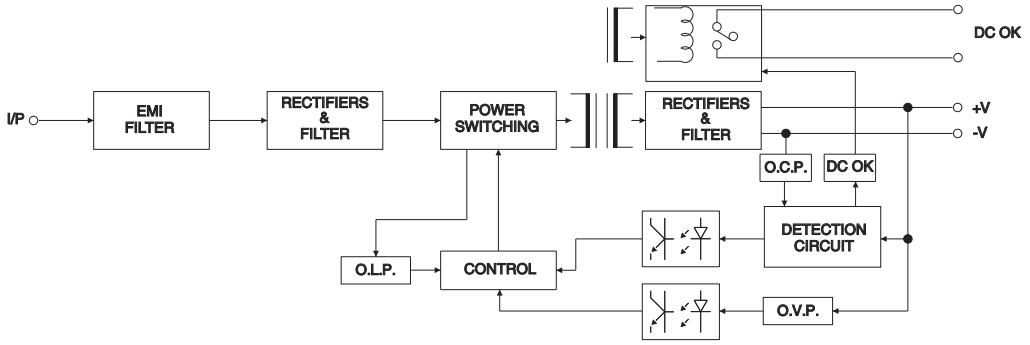
Terminal Pin. No Assign. (TB1)

Pin No.	Assignment
1	FG ⏚
2	AC/N
3	AC/L

Terminal Pin. No Assign. (TB2)

Pin No.	Assignment
1,2	DC OUTPUT +V
3,4	DC OUTPUT -V
5,6	DC OK RELAY CONTACT

Block Diagram

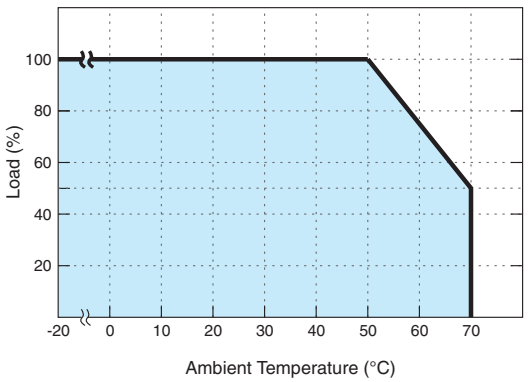


DC OK Relay Contact

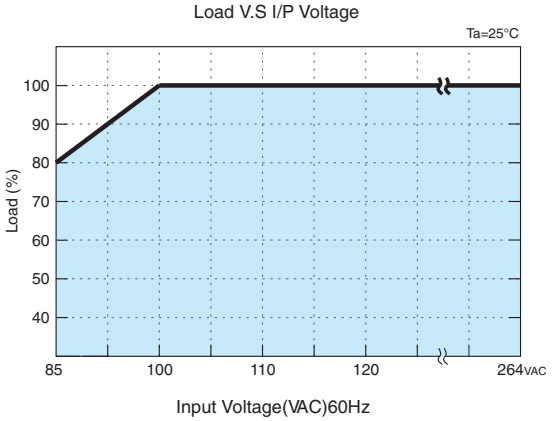
Contact Close	When the output voltage reaches the adjusted output voltage
Contact Open	When the output voltage drop below 90% rated output voltage
Contact Ratings (max.)	30V / 1A resistive load

Derating Curve

Load V.S Temp.



Load V.S I/P Voltage



Note: All dimensions are in millimeters, to convert to inches multiply by 0.03937.

PSC-96 Series

TÜV Type Approved | E361935 | E205412

Features:

- Universal AC input (88-264V AC)
- Protections: Short Circuit / Overload / Overvoltage
- Brown-out protection
- Installed on DIN rail TS35 / 7.5 or 15
- True DC OK signal output
- All wiring 105°C long life electrolytic capacitors
- High operation temperature up to 70°C
- Withstands 2G vibration test
- High efficiency, long life and high reliability
- 3 year warranty
- UL1310 Class 2 Power unit / LPS pass
- UL508 (Industrial control equipment) listed

OUTPUT

Cat. No.	PSC-9612*	PSC-9615*	PSC-9624	PSC-9648
DC VOLTAGE	12V	15V	24V	48V
RATED CURRENT	7.5A	6.4A	4A	2A
CURRENT RANGE	0 ~ 7.5A	0 ~ 6.4A	0 ~ 4A	0 ~ 2A
RATED POWER	90W	96W	96W	96W
RIPPLE & NOISE (max)	180mVp-p	180mVp-p	180mVp-p	250mVp-p
	Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF & 47μF parallel capacitor			
VOLTAGE ADJ. RANGE	10.8 ~ 13.2V	13.5 ~ 16.5V	21.6 ~ 26.4V	43.2 ~ 52.8V
VOLTAGE TOLERANCE	±1.0%	±1.0%	±1.0%	±1.0%
	Tolerance: includes set up tolerance, line regulation and load regulation.			
LINE REGULATION	±1.0%	±1.0%	±1.0%	±1.0%
LOAD REGULATION	±2.0%	±2.0%	±2.0%	±2.0%
SETUP, RISE TIME	< 800ms, < 40ms / 230VAC at full load			
HOLD UP TIME (Typ.)	> 32ms / 230VAC; >16ms / 115VAC at full load			

INPUT

VOLTAGE RANGE	88 ~ 264VAC; 124 ~ 370VDC			
	Derating may apply in low input voltage. Please check the derating curve for more details.			
FREQUENCY RANGE	47Hz~63Hz			
POWER FACTOR (Typ.)	< 0.92 / 230VAC; < 0.98 / 115VAC at full load			
EFFICIENCY (Typ.)	87%	87%	88%	87%
AC CURRENT (Typ.)	1.1 A / 115VAC; 0.55A / 230VAC			
INRUSH CURRENT (Typ.)	COLD START 30A / 115VAC; 60A / 230VAC			
LEAKAGE CURRENT	<1mA / 230VAC			

PROTECTION

OVER LOAD PROTECTION	> 102% rated output power
	Protection type: Constant current limiting, recovers automatically after fault condition is removed.
OVER VOLTAGE PROTECTION	115% ~ 150% rated output voltage
	Protection type: latch-off mode
OVER TEMPERATURE PROTECTION	90°C ± 10°C (RTH2) detect on heat sink of power transistor
	Protection type: Shut down overvoltage, re-power on to recover

ENVIRONMENT

WORKING TEMP.	-20 ~ +70°C (Refer to output load derating curve)
WORKING HUMIDITY	20 ~ 90% RH non-condensing
STORAGE TEMP. / HUMIDITY	-40 ~ +85°C; 10 ~ 95% RH
TEMP. COEFFICIENT	±0.03% / °C (0 ~ 50°C)
VIBRATION	10 ~ 500Hz, 2G 10min. / 1cycle, 60 min. each long X,Y, Z axes

SAFETY & EMC

SAFETY STANDARDS	UL508, TUV EN60950-1:2006+A11, UL1310 NEC class 2 compliant
WITHSTAND VOLTAGE	I/P-O/P: 4242DC I/P-FG: 2121DC 1 minute
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500VDC
EMI CONDUCTION & RADIATION	EN55022:2006 Class B
HARMONIC CURRENT	EN61000-3-2:2006 Class A, EN61000-3-3: 1995+A1: 2001+A2: 2005
EMS IMMUNITY	EN61204-3:2000, EN55024:1998+A1:2001+A2:2003 light industry level, criteria A
	The power supply is considered a component which will installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

OUTPUT

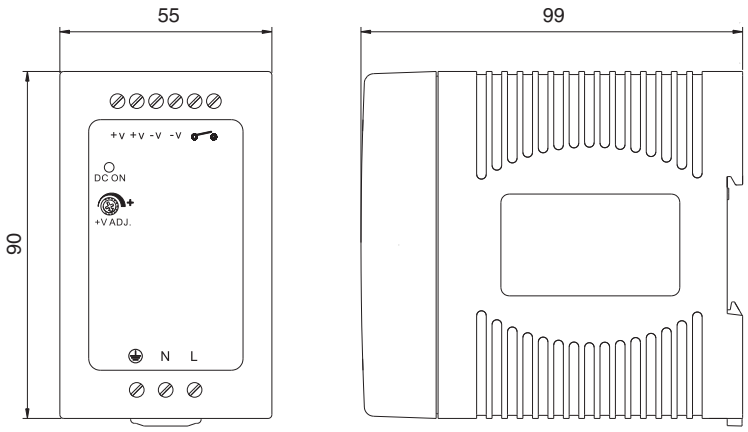
DC OK Signal	Relay contact (24VDC / 1A, 120VAC / 1A)
MTBF	120.4K Hrs MIL-HDBK-217F
DIMENSION	55x90x99 mm (WxHxD)
PACKING	0.4Kg/24 pcs. / 10.8Kg
CONNECTION	I/P 3 poles, 0/P: 6 poles screw DIN terminal
COOLING	Free air convection
	All parameters NOT specially mentioned are measured at 230V AC input, rated load and 25°C of ambient temperature.

*Not included in UL E361935

PSC-96 Series

Mechanical Specification

Unit : mm / inch



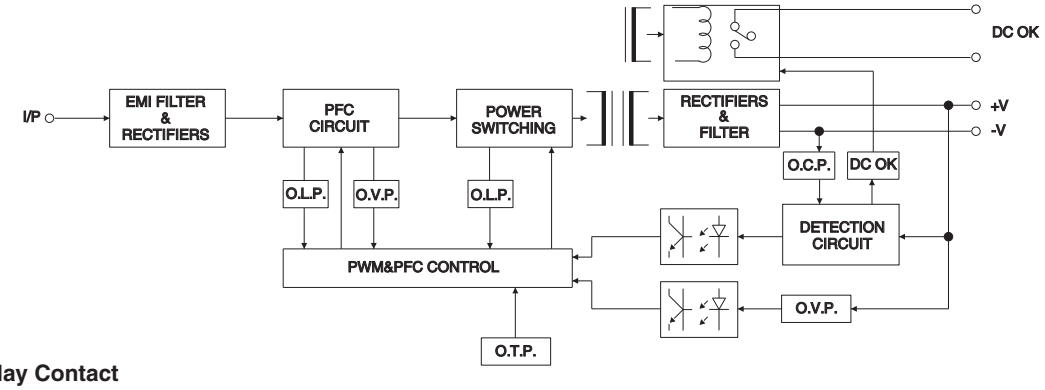
Terminal Pin. No Assign. (TB1)

Pin No.	Assignment
1	FG ⏚
2	AC/N
3	AC/L

Terminal Pin. No Assign. (TB2)

Pin No.	Assignment
1,2	DC OUTPUT +V
3,4	DC OUTPUT -V
5,6	DC OK RELAY CONTACT

Block Diagram

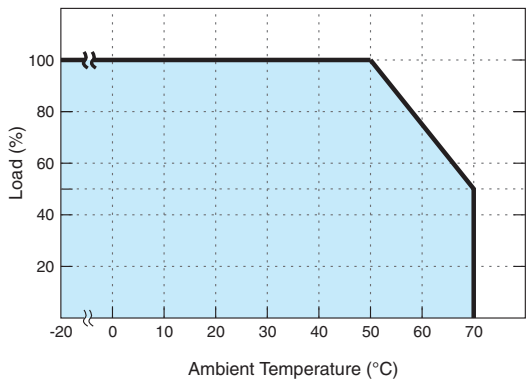


DC OK Relay Contact

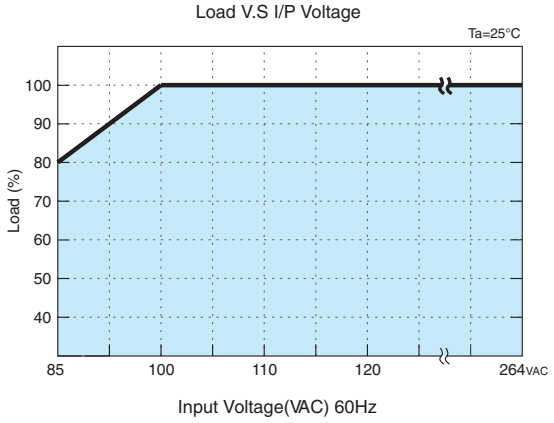
Contact Close	When the output voltage reaches the adjusted output voltage
Contact Open	When the output voltage drop below 90% rated output voltage
Contact Ratings (max.)	30V / 1A resistive load

Derating Curve

Load V.S Temp.



Load V.S I/P Voltage



Note: All dimensions are in millimeters, to convert to inches multiply by 0.03937.

Compact Single Phase Power Supply (PSC)

E205412

Features:

- Universal AC input (88-264V AC)
- Installed on DIN rail TS-35 / 7.5 or 15
- Built-in active PFC function, PF > 0.95
- 150% peak load capability
- 100% full load burn-in test
- Protection: SCP, OLP, OVP, OTP
- Two selectable peak load modes
- Built-in DC OK Relay contact
- Built-in Remote ON / OFF function
- 3 years warranty
- UL 508

150W DIN Rail Power Supply

Cat. No.	Phases	Output V DC A	Tol. %	Ripple & Noise	Efficiency	NOTES
PSC-15124	1	24V DC 6.3A	±1%	≤240 mVp-p	≥87%	
PSC-15148	1	48V DC 3.2A	±1%	≤480 mVp-p	≥87%	

240W DIN Rail Power Supply

Cat. No.	Phases	Output V DC A	Tol. %	Ripple & Noise	Efficiency	NOTES
PSC-24124	1	24V DC 10A	±1%	≤150 mVp-p	≥91%	
PSC-24148	1	48V DC 5A	±1%	≤300 mVp-p	≥92%	

480W DIN Rail Power Supply

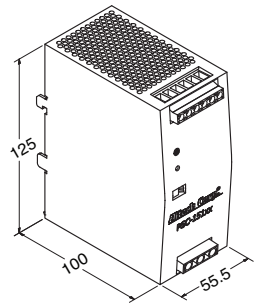
Cat. No.	Phases	Output V DC A	Tol. %	Ripple & Noise	Efficiency	NOTES
PSC-48124	1	24V DC 20A	±1%	≤240 mVp-p	≥93%	
PSC-48148	1	48V DC 10A	±1%	≤480 mVp-p	≥94%	

20A DIN Rail Redundancy Module

Cat. No.	Phases	Output V DC A	Input VDC	Input A	NOTES
PSC-RM20	1	24V DC 20A	24VDC	2x20A	

**Other output voltages on request.

PSC-151 Series



Terminal Pin No. Assignment (TB1)

Pin NO.	Assignment
1	FG ⏚
2	AC/L
3	AC/N

Terminal Pin No. Assignment (TB2)

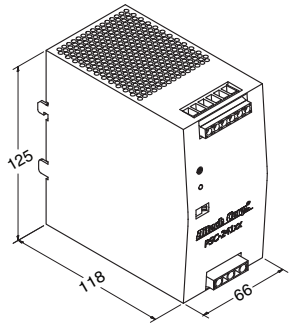
Pin NO.	Assignment
1	DC+
2	DC-
3	INH+
4	INH-
5,6	Relay Contact

Switch No. Assignment

SW NO.	Assignment
SW1	PEAK LOAD SETTING
SW2	REMOTE ON/OFF SETTING

Universal Input: 2.0A @ 115VAC / 1.0A @ 230VAC
Connection Input: 2 poles, single screw terminal
Connection Output: 2 poles, single screw terminal
Size (WxHxD): 55.5x12.5x100 mm (2.19x4.92x3.93 in.)
Packaging: 1/box; 0.72kg (1.6 lbs)

PSC-241 Series



Terminal Pin No. Assignment (TB1)

Pin NO.	Assignment
1	FG ⏚
2	AC/L
3	AC/N

Terminal Pin No. Assignment (TB2)

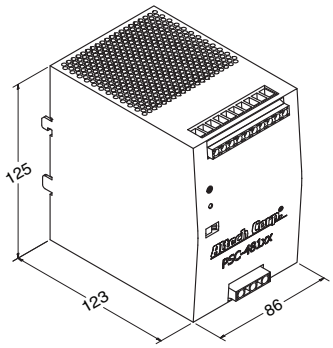
Pin NO.	Assignment
1	DC+
2	DC-
3	INH+
4	INH-
5,6	Relay Contact

Switch No. Assignment

SW NO.	Assignment
SW1	PEAK LOAD SETTING
SW2	REMOTE ON/OFF SETTING

Universal Input: 2.6A @ 115VAC / 1.3A @ 230VAC
Connection Input: 2 poles, single screw terminal
Connection Output: 2 poles, single screw terminal
Size (WxHxD): 66x12.5x118 mm (2.6x4.9x4.65 in.)
Packaging: 1/box; 0.9kg (2.0 lbs)

PSC-481 Series



Terminal Pin No. Assignment (TB1)

Pin NO.	Assignment
1	FG ⏚
2	AC/L
3	AC/N

Terminal Pin No. Assignment (TB2)

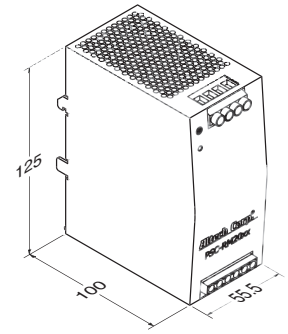
Pin NO.	Assignment
1-3	DC+
4-6	DC-
7	INH+
8	INH-
9,10	DC OK Signal

Switch No. Assignment

SW NO.	Assignment
SW1	PEAK LOAD SETTING
SW2	REMOTE ON/OFF SETTING

Universal Input: 5.0A @ 115VAC / 2.5A @ 230VAC
Connection Input: 2 poles, single screw terminal
Connection Output: 2 poles, single screw terminal
Size (WxHxD): 86x12.5x123 mm (3.4x4.9x4.85 in.)
Packaging: 1/box; 1.45kg (3.2 lbs)

PSC-RM20



Terminal Pin. No Assignment (TB1)

Pin No.	Assignment
1	Vout+
2	Vout-
3,4	Vin-
5	Vin B+
6	Vin A+

Terminal Pin. No Assignment (TB2)

Pin No.	Assignment
1	Alarm B1
2	Alarm B2
3	Alarm A1
4	Alarm A2

Input: 2x20A @ 24VDC
Connection Input: 2 poles, single screw terminal
Connection Output: 2 poles, single screw terminal
Size (WxHxD): 55.5x12.5x100 mm (2.19x4.92x3.93 in.)
Packaging: 1/box; 0.72kg (1.6 lbs)

PSC-151 Series

E205412

Features:

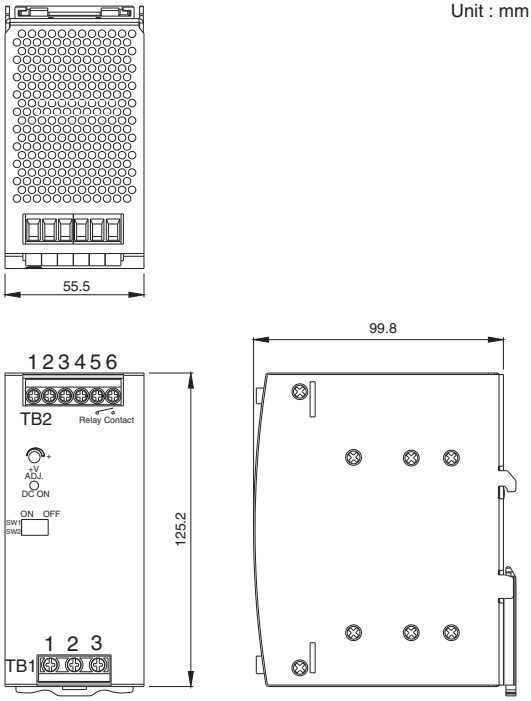
- Universal AC input (88-264V AC)
- Installed on DIN rail TS-35 / 7.5 or 15
- Built-in active PFC function, PF > 0.95
- 150% peak load capability
- 100% full load burn-in test
- Protection: SCP, OLP, OVP, OTP
- Two selectable peak load modes
- Built-in DC OK Relay contact
- Built-in Remote ON / OFF function
- 3 years warranty
- UL 508

	Cat. No.	PSC-15124	PSC-15148
OUTPUT	DC VOLTAGE	24V	48V
	RATED CURRENT	6.3A	3.2A
	CURRENT RANGE	0~6.3A	0~3.2A
	RATED POWER	150W	150W
	PEAK CURRENT	9.45A	4.8A
	PEAK POWER	225W (3sec.) 3 seconds or 20% duty cycle max. and the average output power should not exceed the rate power.	
	RIPPLE & NOISE (max)	240mVp-p	480mVp-p
		Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF & 47μF parallel capacitor.	
	VOLTAGE ADJ. RANGE	-2% ~ +8%	-2% ~ +8%
	VOLTAGE TOLERANCE	±1.0%	±1.0%
		Tolerance: includes set up tolerance, line regulation and load regulation.	
	LINE REGULATION	±0.5%	±0.5%
	LOAD REGULATION	±1.0%	±1.0%
	SETUP, RISE TIME	700ms, 30ms / 230VAC / 115VAC at full load	
	HOLD UP TIME (Typ.)	16ms / 230VAC; 16ms / 115VAC at full load	
INPUT	VOLTAGE RANGE	88 ~ 264VAC; 124 ~ 373VDC Derating may apply in low input voltage. Please check the derating curve for more details.	
	FREQUENCY RANGE	47 ~ 63Hz	
	POWER FACTOR(Typ.)	0.9 / 230VAC; 0.98 / 115VAC at full load	
	EFFICIENCY (Typ.)	87%	87%
	AC CURRENT (Typ.)	2.0A / 115VAC; 1.0A / 230VAC	
	INRUSH CURRENT (Typ.)	33A / 115VAC; 65A / 230VAC	
	LEAKAGE CURRENT	<1mA/ 240VAC	
PROTECTION	OVERLOAD PROTECTION	105% ~ 150% rated output power for 3 sec and then shutdown in O/P with auto-recovery. 150% or greater rated power or short circuit is constant current limiting. If O/P drops to 40% output then it auto-recover 5 times; if fault condition is not removed during auto recovery, the system will shut down and needs to be restarted to recover.	
	OVER VOLTAGE	29 ~ 33V	56 ~ 65V
		Protection type: Latch-off mode, repower on to recover.	
	OVER TEMPERATURE	95 ±5°C (TSW: detect on heatsink of power diode) Protection type: Shut down o/p voltage, recovers automatically after temperature goes down	
ENVIRONMENT	WORKING TEMP.	-10 ~ +70°C (Refer to derating curve) Installation clearance: 40mm from top, 20mm from bottom, 5mm from the left and right side are recommended when loaded permanently with full power. In case the adjacent device is a heat source, 15mm clearance is recommended.	
	WORKING HUMIDITY	20 ~ 95% RH non-condensing	
	STORAGE TEMP. / HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH	
	TEMP. COEFFICIENT	±0.03% / °C (0 ~ 50°C)	
	VIBRATION	10 ~ 500Hz, 2G 10min. / 1cycle, 60min. each along X, Y, Z axes	
SAFETY & EMC	SAFETY STANDARDS	UL 508 / TUV EN 60950-1	
	WITHSTAND VOLTAGE	I/P-O/P: 4242VDC, I/P-FG: 2121VDC, O/P-FG: 707VDC, O/P-DC OK: 707VDC	
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: >100M Ohms / 500VDC / 25°C / 70% RH	
	EMI CONDUCTION & RADIATION	EN55022 (CISPR22) Class B	
	HARMONIC CURRENT	EN61000-3-2, -3	
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204; EN55024; EN61000-6-2; (EN50082-2); EN61204-3; heavy industry level; criteria A, MEET SEMI F47 The power supply is considered a component which will installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.	
OUTPUT	DC OK RELAY. CONTACT RATINGS (max)	60VDC / 0.3A, 30VDC / 1A, 30VAC / 0.5A resistive load	
	MTBF	62.7K HRS (MIL-HDBK-217F)	
	DIMENSION	55.5x125.2x99.8 mm (WxHxD)	
	PACKING	0.72kg; 12pcs / 12.8kg	
	COOLING	Free air convection All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.	

PSC-151 Series

Mechanical Specification

Unit : mm / inch



Terminal Pin No. Assignment (TB1)

Pin NO.	Assignment
1	FG ⏚
2	AC/L
3	AC/N

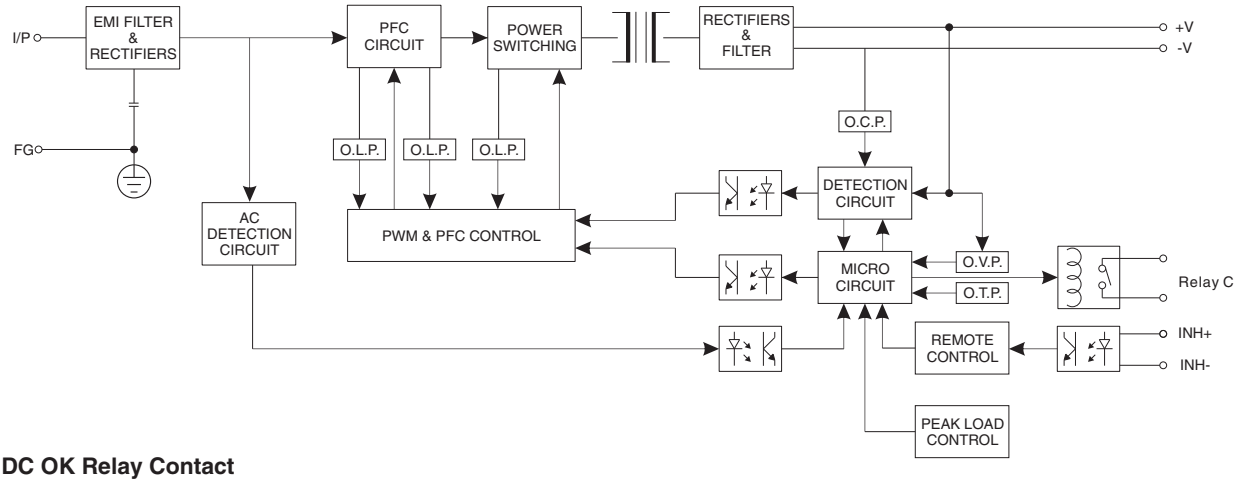
Terminal Pin No. Assignment (TB2)

Pin NO.	Assignment
1	DC+
2	DC-
3	INH+
4	INH-
5,6	Relay Contact

Switch No. Assignment

SW NO.	Assignment
SW1	PEAK LOAD SETTING
SW2	REMOTE ON/OFF SETTING

Block Diagram



DC OK Relay Contact

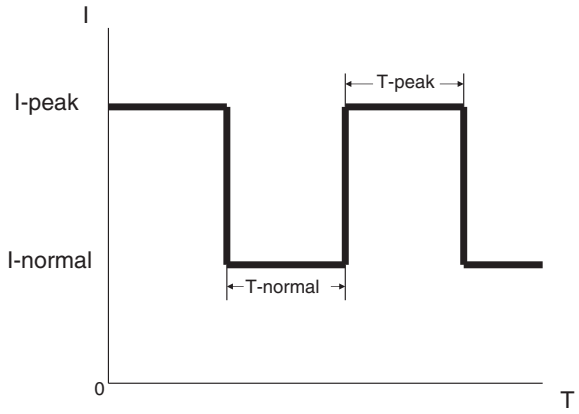
Contact Close	When the output voltage reaches the adjusted output voltage.
Contact Open	When the output voltage drop below 45% rated output voltage.
Contact Ratings(max.)	30V/1A resistive load

Note: All dimensions are in millimeters, to convert to inches multiply by 0.03937.

PSC-151 Series

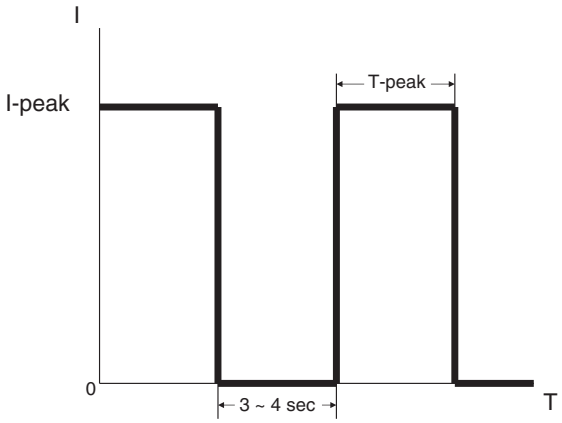
E205412

Peak Load SW1 ON (Mode1) Default setting

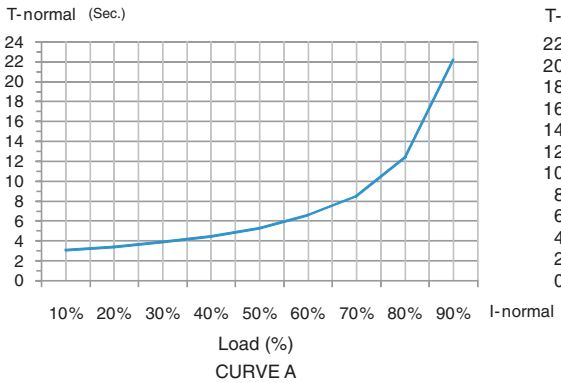


T-peak presents while the unit is working within 110%~150% Rating output power. See curve " B " for the variation in T-peak between output current and holdup time. If T-peak is more than the time setting in curve "B", the output current will drop to the constant current limit (I-normal) that is 105% rating power, meanwhile, I- normal and T-normal will be presenting. See curve "A" for the timing back to I-Peak of T-normal and this Mode can use for easy 2-stage battery charger.

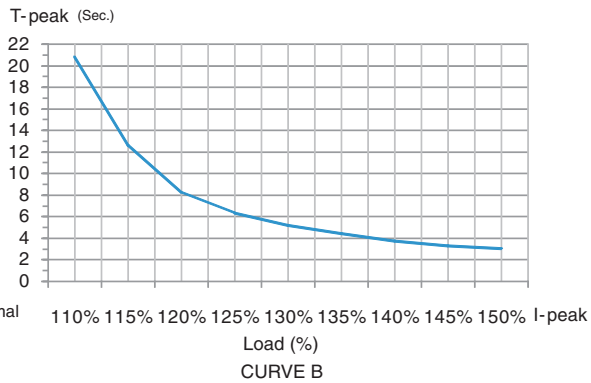
Peak Load SW2 OFF (Mode2)



T-peak presents while the unit is working within 110%~150% Rating output power. See curve " B " for the variation in T-peak between output current and holdup time. If T-peak is more than the time setting in curve "B", the output current will be shut down for 3~4 sec, then auto-recovery.



CURVE A

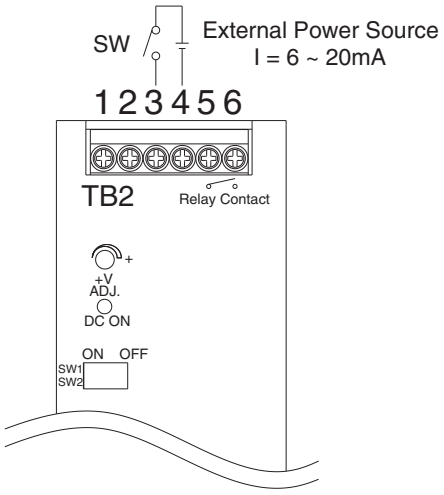


CURVE B

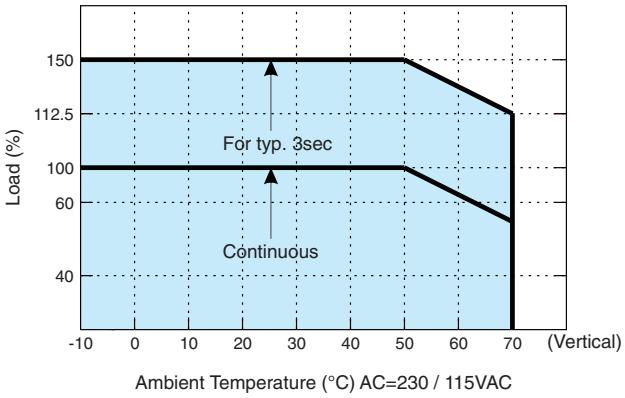
Remote ON/OFF

The PSU can be turned ON/OFF by using the "Remote Control" function.

SW2	INH+(3 PIN)/ INH-(4 PIN)	Output Status	
OFF	SW ON (>2.5V)	ENABLE	
OFF	SW OFF (<0.8V)	DISABLE	
ON	SW ON (>2.5V)	DISABLE	
ON	SW OFF (<0.8V)	ENABLE	(Default Setting)



Derating Curve



Output derating VS input Voltage