

# **PSC-241 Series**













#### Features:

- Universal AC input (88-264V AC)
- High efficiency 92% and low power dissipation
- 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
- UĹ 508

D.C. VOLTAGE   ARTED CURRENT   CURRENT   CURRENT   AND   S.A.	OUTPUT	Cat. No.	PSC-24124	PSC-24148
ARTED LURRENT   10A		DC VOLTAGE	24V	48V
CURRENT RANGE   RATED POWER   240W   240W   7.5A				
RATED POWER   240W   240W   7.5A				
PACK CURRENT   1.5A   3.6DM (Sacc). Two selectable peak load modes   3				
PEAN POWER   S80M (3exc.) Tivo special color am office in the created the ratio power.				
RIPPLE & NOISE (max)				
NOLTAGE ADJ. RANGE		PEAK PUWER	. ,	
VOLTAGE TOLERANCE		RIPPLE & NOISE (max)		· · · · · ·
VOLTAGE TOLERANCE		VOLTAGE AD.I. RANGE	-2% ~ +8%	-2% ~ +8%
LINE REGILATION   ±1.0%   ±1			±1.0%	±1.0%
LOAD REGULATION   SETUP, RISE TIME   700ms, 30ms / 230VAC / 115VAC at full load   1.0%		LINE REGILI ATION	i	ĭ
SETUP. RISE TIME				
NOTICE   HOLD UP TIME (Typ.)   20ms / 230VAC; 20ms / 115VAC at full load   VOLTAGE RAINGE				±1.0%
VOLTAGE RANGE		SETUP, RISE TIME	700ms, 30ms / 230VAC / 115VAC at full load	
PROUENCY RANGE	INPUT	HOLD UP TIME (Typ.)	20ms / 230VAC; 20ms / 115VAC at full load	
PRECUENCY RANGE		VOLTAGE RANGE		ating curve for more details.
POWER FACTOR (Typ.)   0.96 / 230VAC; 0.96 / 115VAC at full load   92%		FREQUENCY BANGE		
PROTECTION				
AC CURRENT (Typ.)				02%
INRUSH CURRENT (Typ.)   33A / 115VAC; 65A / 230VAC				9270
LEAKAGE CURRENT   C1m3/ 240VAC		1 2 7	•	
OVERLOAD	PROTECTION		•	
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 shirt down and needs to 1e restarted to recover.	PROTECTION	LEAKAGE CURRENT	<1mA/ 240VAC	
OVER VOLTAGE		OVERLOAD	150% or greater rated power or short circuit is constant curre If $0/P$ drops to 40% output then it auto-recover 5 times; if fau	nt limiting. It condition is not removed
PROVIRONMENT  WORKING TEMP.  -25 + 70°C (Refer to output load derating curve) Installation (bearances: 40mm on top, 20mm on the bottom, 5mm on 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 STORAGE TEMP. / HUMIDITY TEMP. COEFFICIENT TEMP. COEF		OVER VOLTAGE	28 ~ 33V	
WORKING TEMP.  -25 ~ +70°C (Refer to output load derating curve) Installation clearances: 40mm on top, 20mm on the bottom, 5mm on 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 10 ~ 40 ~ +85°C; 10 ~ 95% RH 10 ~ 500 RH 10 ~ 600 RH 10	FNVIRONMENT	OVER TEMPERATURE	95 ±5°C (TSW: detect on heatsink of power die	
WORKING HUMIDITY   20 ~ 95% RH non-condensing	LIVITORIVILIVI	WORKING TEMP.	-25 $\sim$ +70°C (Refer to output load derating cur Installation clearances: 40mm on top, 20mm on the bottom, 5	ve) mm on the left and right side are recommended when loaded
STORAGE TEMP. / HUMIDITY		WORKING HIMIDITY		icat source, Tomin ocaranee is recommended.
TEMP. COEFFICIENT			· ·	
VIBRATION			,	
SAFETY STANDARDS   UL508, TUV EN60950-1     WITHSTAND VOLTAGE   I/P-0/P: 4242VDC   I/P-FG2121VDC   O/P-F/G: 707VDC   O/P-DC 0K: 707VDC     ISOLATION RESISTANCE   I/P-0/P, I/P-FG, O/P-FG: > 100M 0hms / 500VDC / 25°C / 70% RH     EMI CONDUCTION & RADIATION   EN55022:2006 Class B     HARMONIC CURRENT   EN61000-3-2: 2006 Class A, ENG1000-3-3: 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.    DC OK RELAY CONTACT RATINGS (max)   60VDC / 0.3A, 30VDC / 1A, 30VAC / 0.5A resistive load     MTBF	CAFETY O FRAC		,	long V V 7 avos
WITHSTAND VOLTAGE	SAFETY & EMC		, , , , , , , , , , , , , , , , , , ,	i long x, r, z axes
ISOLATION RESISTANCE			,	0 707UD0 0/D D0 0/J 707UD0
EMI CONDUCTION & RADIATION HARMONIC CURRENT EM61000-3-2: 2006 Class B EN61000-3-2: 2006 Class A, ENG1000-3-3: 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.  DC OK RELAY CONTACT RATINGS (max) MTBF 57K HRS (MIL-HDBK-217F) DIMENSION 65.8x125.2x117.7 mm (WxHxD) PACKING 0.9kg; 12pcs / 12.8kg COOLING Free air convection				
HARMONIC CURRENT EN61000-3-2: 2006 Class A, ENG1000-3-3: 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.  DC OK RELAY CONTACT RATINGS (max) MTBF 57K HRS (MIL-HDBK-217F)  DIMENSION 65.8x125.2x117.7 mm (WxHxD)  PACKING 0.9kg; 12pcs / 12.8kg  COOLING Free air convection				OC / 25°C / 70% RH
DC OK RELAY CONTACT RATINGS (max) MTBF DIMENSION PACKING DC OKING DOUTHOR DIMENSION PACKING COOLING PACKING COOLING  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.  60VDC / 0.3A, 30VDC / 1A, 30VAC / 0.5A resistive load MTBF 57K HRS (MIL-HDBK-217F) DIMENSION 65.8x125.2x117.7 mm (WxHxD) 9.9kg; 12pcs / 12.8kg Free air convection				
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.  DC OK RELAY CONTACT RATINGS (max) MTBF 57K HRS (MIL-HDBK-217F) DIMENSION 65.8x125.2x117.7 mm (WxHxD) PACKING 0.9kg; 12pcs / 12.8kg COOLING Free air convection		HARMONIC CURRENT	EN61000-3-2: 2006 Class A, ENG1000-3-3: 19	995+A1: 2001+A2: 2005
DC OK RELAY CONTACT RATINGS (max)   60VDC / 0.3A, 30VDC / 1A, 30VAC / 0.5A resistive load   57K HRS (MIL-HDBK-217F)   DIMENSION   65.8x125.2x117.7 mm (WxHxD)   PACKING   0.9kg; 12pcs / 12.8kg   COOLING   Free air convection   Free air conve		EMS IMMUNITY	EN61204-3: 2000, EN55024: 1998+A1: 2001+	-A2: 2003 light industry level, criteria A
MTBF         57K HRS (MIL-HDBK-217F)           DIMENSION         65.8x125.2x117.7 mm (WxHxD)           PACKING         0.9kg; 12pcs / 12.8kg           COOLING         Free air convection	OUTPUT			lled into a final equipment. The final equipment must be
DIMENSION 65.8x125.2x117.7 mm (WxHxD) PACKING 0.9kg; 12pcs / 12.8kg COOLING Free air convection		DC OK RELAY CONTACT RATINGS (max)	60VDC / 0.3A, 30VDC / 1A, 30VAC / 0.5A resist	tive load
DIMENSION 65.8x125.2x117.7 mm (WxHxD) PACKING 0.9kg; 12pcs / 12.8kg COOLING Free air convection		MTBF	57K HRS (MIL-HDBK-217F)	
PACKING 0.9kg; 12pcs / 12.8kg COOLING Free air convection			,	
COOLING Free air convection			* *	
			o, 1	
		COOLING		VAC input, rated load and 25°C of ambient temperature.

# **PSC-241 Series**

#### **Mechanical Specification**

Terminal Pin No. Assignment (TB1)

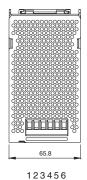
Pin NO.	Assignment
1	FG 🖶
2	AC/L
3	AC/N

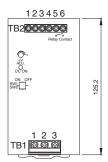
Terminal Pin No. Assignment (TB2)

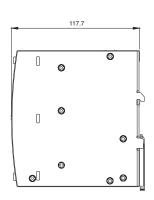
Pin NO.	Assignment
1	DC+
2	DC-
3	INH+
4	INH-
5,6	Relay Contact

Switch No. Assignment

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

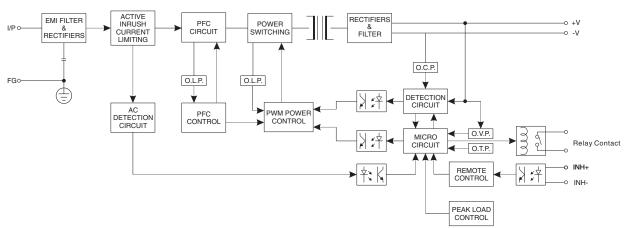






Unit: mm / inch

### **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.