

# PSC 600 Series

250-800 WATTS DC/DC SINGLE OUTPUT

## FEATURES

- Single outputs from 5Vdc to 125Vdc.
- Conformal coating.
- Under voltage alarm.
- High efficiency.
- Operating temperature range -25°C to +70°C with no derating.
- Fully encapsulated, IP30 as standard.
- Convection cooled.



EURO CASSETTES

## SPECIFICATIONS

INPUT	
Voltage	See Table
Isolation	Input - Output: 2.5kVac / 4kVdc Input - Case: 2.5kVac / 4kVdc Output - Case, all outputs: 2kVdc
Reverse input voltage protection	Parallel diode (Input code: 24, 48) Series diode (Input code: 110, 220)
OUTPUT	
Voltage	See table.
Current	See table.
Source regulation	0.2%.
Load regulation	0.2%.
Output ripple (50kHz)	20mV p-p typ.
Input ripple attenuation on output 50 to 400Hz	150:1
Voltage adjustment	90% - 110%.
Current limit protection	105%.
Overvoltage protection	115%.
Under voltage alarm	90% of nominal output.
Remote sense	Option S.
Soft start	Yes.
Start-up time	1s
Hold-up time	2-25ms
Efficiency	80 - 93%
Switching frequency	50 kHz

## SELECTION TABLE

T-INPUT RANGE FOR MOBILE APPLICATION		
UIN 0.1S-S2	CONTINUOUS RANGE	CODE
14.4-33.6V	16.8-30V	24T
21.6-50.4V	25.2-45V	36T
28.8-67.2V	33.6-60V	48T
43.2-110.8V	50.4-90V	72T
66-154V	77-137.5V	110T

The total output power can be derated on a T-range compared with the above output rating table. Input according to EN50155:2001 and IEC90571:1998

ENVIRONMENTAL	
Operating temperature	-25°C to 70°C (100% load, single output >10Vdc). -25°C to +55°C (100% load, single output <10Vdc).
Temperature coefficient	0.02%/°C.
Cooling	Convectional cooling.
Storage temperature	-40°C to 85°C.
STANDARDS	
Safety	IEC60950
EMI standards	EN61000-6-3, EN55011/EN55022 Level B
Immunity standards	EN/IEC 61000-4-2, EN/IEC 61000-4-3
C-Tick	AS/NZS CISPR11: 2002 Group1 Class A
MECHANICAL	
Mounting	Consult Powerbox for mounting options

## OPTIONS

- C - Built in series diode  
A series diode on the output, when output is connected in parallel with other power supplies to achieve redundancy. Output power might be derated.
- S - The voltage sensing can be put at the load to compensate for voltage drop. This is standard feature on 5V output.
- H - Inrush current limit with NTC  
Only for C-input code. Reduce the inrush current during the start up. The input voltage range will be affected.
- E2 - 2.5kVac isolation output/case  
The emission level will increase to level A.
- L - Euro panel  
8TE for PSE 150 & PSE 200, 10TE for PSE 250.
- N - Wall mounting panels  
Wall mounting panel with connector holder The female connector has to be chosen.
- Wider input range The PSC600 series can be supplied with wide input range to meet train or mobile application demands.

# PSC 600 Series

250-800 WATTS DC/DC SINGLE OUTPUT

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## SELECTION TABLE

MODEL NUMBER	INPUT	OUTPUT		CASE	6HE	POWER
PSC250 24/5	20-32V	5V	50A	46mm	10TE	250W
PSC400 24/12	20-32V	12V	33A	46mm	10TE	400W
PSC400 24/15	20-32V	15V	27A	46mm	10TE	400W
PSC600 24/24	20-32V	24V	25A	46mm	10TE	600W
PSC600 24/48	20-32V	48V	12.5A	46mm	10TE	600W
PSC600 24/110	20-32V	110V	5.5A	46mm	10TE	600W
PSC600 24/125	20-32V	125V	4.8A	46mm	10TE	600W
PSC250 48/5	41-60V	5V	50A	46mm	10TE	250W
PSC400 48/12	41-60V	12V	33A	46mm	10TE	400W
PSC700 48/12	41-60V	12V	60A	56mm	14TE	720W
PSC400 48/15	41-60V	15V	27A	46mm	10TE	400W
PSC800 48/15	41-60V	15V	54A	56mm	14TE	800W
PSC600 48/24	41-60V	24V	25A	46mm	10TE	600W
PSC800 48/24	41-60V	24V	33A	56mm	14TE	800W
PSC600 48/48	41-60V	48V	12.5A	46mm	10TE	600W
PSC800 48/48	41-60V	48V	17A	56mm	14TE	800W
PSC600 48/110	41-60V	110V	5.5A	46mm	10TE	600W
PSC800 48/110	41-60V	110V	7.3A	56mm	14TE	800W
PSC600 48/125	41-60V	125V	4.8A	46mm	10TE	600W
PSC800 48/125	41-60V	125V	6.4A	56mm	14TE	800W
PSC250 110/5	93-150V	5V	50A	46mm	10TE	250W
PSC400 110/12	93-150V	12V	33A	46mm	10TE	400W
PSC700 110/12	93-150V	12V	60A	56mm	14TE	720W
PSC400 110/15	93-150V	15V	27A	46mm	10TE	400W
PSC800 110/15	93-150V	15V	54A	56mm	14TE	800W
PSC600 110/24	93-150V	24V	25A	46mm	10TE	600W
PSC800 110/24	93-150V	24V	33A	56mm	14TE	800W
PSC600 110/48	93-150V	48V	12.5A	56mm	10TE	600W
PSC800 110/48	93-150V	48V	17A	46mm	14TE	800W
PSC600 110/110	93-150V	110V	5.5A	46mm	10TE	600W
PSC800 110/110	93-150V	110V	7.3A	56mm	14TE	800W
PSC600 110/125	93-150V	125V	4.8A	46mm	10TE	600W
PSC800 110/125	93-150V	125V	6.4A	56mm	14TE	800W
PSC250 220/5	187-300V	5V	50A	46mm	10TE	250W
PSC400 220/12	187-300V	12V	33A	46mm	10TE	400W
PSC700 220/12	187-300V	12V	60A	56mm	14TE	720W
PSC400 220/15	187-300V	15V	27A	46mm	10TE	400W
PSC800 220/15	187-300V	15V	54A	56mm	14TE	800W
PSC600 220/24	187-300V	24V	25A	46mm	10TE	600W
PSC800 220/24	187-300V	24V	33A	56mm	14TE	800W
PSC600 220/48	187-300V	48V	12.5A	46mm	10TE	600W
PSC800 220/48	187-300V	48V	17A	56mm	14TE	800W
PSC600 220/110	187-300V	110V	5.5A	46mm	10TE	600W
PSC800 220/110	187-300V	110V	7.3A	56mm	14TE	800W
PSC600 220/125	187-300V	125V	4.8A	46mm	10TE	600W
PSC800 220/125	187-300V	125V	6.4A	56mm	14TE	800W