

# SMPS AC-DC / DC-DC Converter 150 W



## OVERVIEW

- High efficiency up to 88%
- Passive PFC
- Overload and overtemperatur protection build in
- Compact design
- C/C and C/V Mode
- Temperature controlled o/p
- Other o/p voltages on request

## DESCRIPTION

Switch-Mode Power supply / DC-DC Converter using 100kHz MOS-FET technology . Meets the requirements of the EN61000-3-2 A14, the unit has an passive PFC circuit. The PSU can be used for normal electronic equipment and also as a charger in battery applications, the o/p characteristic is CC/CV. For cooling requirements it is necessary to mount the unit to a chassis. The o/p voltage is temperature controlled in a range from 0-40°C (Option TC )

## SINGLE OUTPUT

Type	Power W	Voltage V	Current A
SMPS 150/5	150	5	30
SMPS 150/12	150	12 - 15	14
SMPS 150/24	150	24 - 28	8
SMPS 150/48	150	48 - 60	4

## MULTI OUTPUT

Type	Power W	o/p 1 V	o/p1 A	o/p2 V	o/p2 A	o/p3 V	o/p3 A	o/p4 V	o/p4 A
SMPS150/M1	150	5	20	12	3	-12	1		
SMPS150/M2	150	5	15	12	6(8)	-12	1	5	0,5
SMPS150/M3	150	5	12	12	1,5	-12	1	12	6(8)
SMPS150/M4	150	5	12	12	1,5	-12	1	24	3(4)

## INPUT

Suffix	Nomional	Tolerance	Max. Power	Remarks
/AS	100 - 240VAC	90 - 264VAC	100%	Automatic select.
/X	100 / 240VAC	90/264VAC	100%	47 - 63Hz
/DC1	12VDC	9 - 18VDC	60%	
/DC2	24VDC	18 - 36VDC	80%	
/DC3	48/60VDC	36 - 72VDC	90%	
/DC4	110VDC	88 - 140VDC	100%	
/DC5	220VDC	176 - 275VDC	100%	

## OPTIONS

Suffix	Description	Remarks
/PF	Power-Fail Signal TTL	Not at 40W
/L3	DC Fail Signal	Not at 40W
/CC	Conformal coated	
/TC	Temperature controlled o/p	Only o/p1
/LT	Temperaturerange -20 up +70°C	

## TECHNICAL DATAS

Safety	EN 60.950
Safety class	IP20
Creepance and clearance	8 / 8 mm
Emission	EN 61.000-6-4
Immunity	EN 61.000-6-2
Protection class	1
Operating temperature	0 - 70°C
Temperature coefficient	0,02%/°C
Storage temperature	-45 . +85°C
Derating from 55°C	-2,5%/°C
MTBF MIL Handbook	120.000h

## TECHNICAL DATAS O/P 1

Load regulation	0,2% (10-90-10% Load)
Input regulation	0,1% (+/- 15%)
Response time	800 µsec (20 - 100 / 100 - 20%)
Ripple and noise	0,2% / 1% (rms / pp)
temperature voltage adjust (TC)	+/- 6mV/°C
Output adjustable	+/- 5%

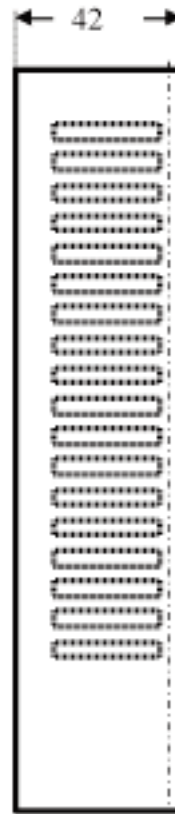
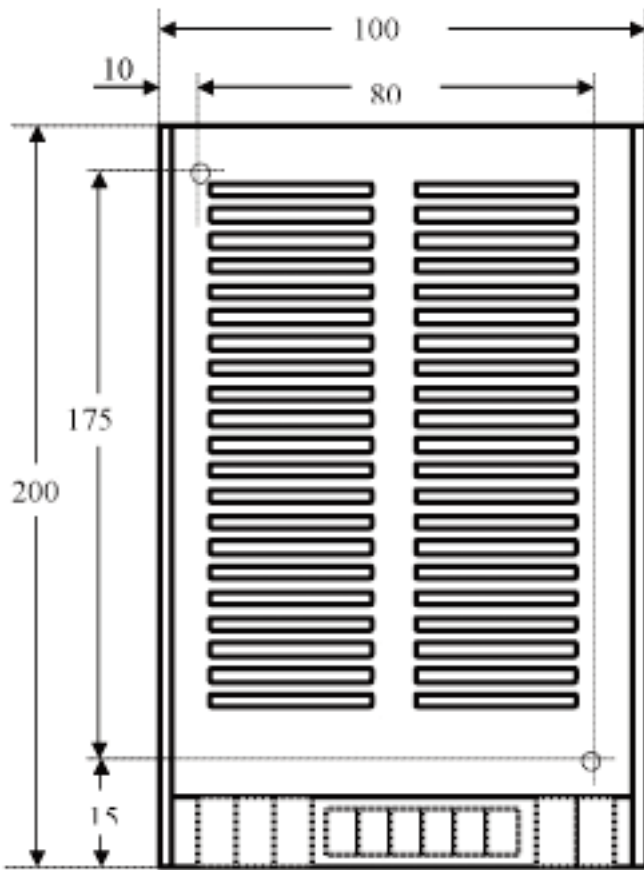
## TECHNICAL DATAS DYN. O/P (A)

Load regulation	+/- 4% (10-90-10% Load)
Input regulation	0,2% (+/- 15%)
Ripple and noise	0,2% / 1% (rms / pp)
Crossregulation	1 : 10 (Loadchange main o/p)

## TECHNICAL DATAS ADDITIONAL O/P 1-1,5A

Load regulation	0,2% (10-90-10% Load)
Input regulation	0,1% (+/- 15%)
Ripple and noise	0,2% / 1% (rms / pp)

**DIMENSIONS**



1 2 3      4 5 6 7 8 9      10 11

Mounting Holes 3 x M3

