



Unit 111, Dunston Innovation Centre
 Chesterfield, S41 8NG, U.K.
 T e l : + 44 (0) 1246 452909
 F a x : + 44 (0) 1246 452942
 W e b : w w w . e t p s . c o . u k
 E m a i l : s a l e s @ e t p s . c o . u k
 S a l e s : 0 8 0 0 6 1 2 9 5 7 5

CON-SMPS

DC-DC Converter

Description

The CON-SMPS range of switch-mode DC/DC converters provides both single and multi output units (see separate data sheet CON-SMPS-M) with maximum output powers of 40watts to 350 watts. The range switches at 100 kHz and achieves efficiencies of 88%. This high efficiency translates into a very compact package and a lower level of input energy to power your application. The units incorporate a passive power factor correction circuit and all components are derated to provide long term reliability and trouble free use. All units in the series are fully enclosed and have mounting options on either the base or side of the case. The output characteristics are CC /CV and with over temperature, overload protection elevated operating temperature (70°C) and a conformal protection option these power supplies are suitable for a wide range of applications. The power platforms in this range have formed the base of many customer specific requirements including: Industrial Control Systems, Military systems, submersible vehicles plus many more.



- Overload & over temperature protection
- Other O/P voltages on request
- CC & CV operating modes
- High efficiency, up to 88%
- Rugged design
- PFC circuit

Technical Data

DC Input.....	See option table
Safety.....	EN 60950
Creeping and clearance.....	8/8
Emission.....	EN 61000-6-4
Immunity.....	EN 61000-6-2
Protection class.....	1
Operating temperature.....	0 - 70°C
Temperature coefficient.....	0.02%/°C
Storage temperature.....	-45 to 85°C
Derating from 55°C.....	-2.5%/°C
MTBF MIL Handbook.....	120.000h
Load regulation.....	0.2% (10-90-10% Load)
Input regulation.....	0.1% (±15%)
Response time.....	800µsec (20-100/100-20%)
Ripple & noise.....	0.2% / 1% (rms/pp)
Output adjustable.....	±5%
Remote sense.....	+0.3V (typ)

Every effort is made to ensure that the information provided within this technical summary is accurate. However, ET must reserve the right to make changes to the published specifications without prior notice. Where certain operating parameters are critical for your application we advise that they be confirmed at the time of order. ET specialises in modifying its proven platforms to suit your needs. Please contact our office if your requirement is non-standard. The photograph illustrates a 120W unit. You're chosen unit may differ from that shown.



sales@etps.co.uk
0800 612 95 75

CON-SMPS

DC-DC Converter

Selection Table

Part Number	Power	Voltage	Current	Dimensions (L x W x H)	Weight (approx kgs)
CON-SMPS 40-5-DCx	40W	5V	8A	130 x 64 x 28mm	1.1kg
CON-SMPS 40-12-DCx	40W	12 - 15V	3.5A	130 x 64 x 28mm	1.1kg
CON-SMPS 40-24-DCx	40W	24 - 28V	2A	130 x 64 x 28mm	1.1kg
CON-SMPS 40-48-DCx	40W	48 - 60V	1.2A	130 x 64 x 28mm	1.1kg
CON-SMPS 75-5-DCx	75W	5V	15A	140 x 100 x 42mm	1.2kg
CON-SMPS 75-12-DCx	75W	12 - 15V	5A	140 x 100 x 42mm	1.2kg
CON-SMPS 75-24-DCx	75W	24 - 28V	3A	140 x 100 x 42mm	1.2kg
CON-SMPS 75-48-DCx	75W	48 - 60V	1.5A	140 x 100 x 42mm	1.2kg
CON-SMPS 150-5-DCx	150W	5V	30A	200 x 100 x 42mm	1.5kg
CON-SMPS 150-12-DCx	150W	12 - 15V	12A	200 x 100 x 42mm	1.5kg
CON-SMPS 150-24-DCx	150W	24 - 28V	5A	200 x 100 x 42mm	1.5kg
CON-SMPS 150-48-DCx	150W	48 - 60V	3.3A	200 x 100 x 42mm	1.5kg
CON-SMPS 250-5-DCx	250W	5V	50A	225 x 127 x 48mm	2.1kg
CON-SMPS 250-12-DCx	250W	12 - 15V	20A	225 x 127 x 48mm	2.1kg
CON-SMPS 250-24-DCx	250W	24 - 28V	12A	225 x 127 x 48mm	2.1kg
CON-SMPS 250-48-DCx	250W	48 - 60V	6A	225 x 127 x 48mm	2.1kg
CON-SMPS 350-5-DCx	350W	5V	60A	225 x 127 x 48mm	2.4kg
CON-SMPS 350-12-DCx	350W	12 - 15V	25A	225 x 127 x 48mm	2.4kg
CON-SMPS 350-24-DCx	350W	24 - 28V	15A	225 x 127 x 48mm	2.4kg
CON-SMPS 350-48-DCx	350W	48 - 60V	7.5A	225 x 127 x 48mm	2.4kg

Different output ranges and application/user specific options are possible. Please contact ET to discuss your requirements.
Replace DCx with Input range required

Options Table

Code	Description
/DC1.....	12Vdc Nominal Voltage (9-18Vdc range) 60% of max power available
/DC2.....	24Vdc Nominal Voltage (18-36Vdc range) 80% of max power available
/DC3.....	48/60Vdc Nominal Voltage (36-72Vdc range) 90% of max power available
/DC4.....	110Vdc Nominal Voltage (88-140Vdc range) 100% of max power available
/DC5.....	220Vdc Nominal Voltage (176-275Vdc range) 100% of max power available
/AI-5CC.....	0-5V = 0-Imax
/AI-5CV.....	0-5V = 5V-Vmax (5V units = 2V-Vmax)
/AI-5CC/CV.....	0-5V = 0-Imax, 5V-Vmax (5V units = 2V-Vmax)
/AI-10CC.....	0-10V = 0-Imax
/AI-10CV.....	0-10V = 5V-Vmax (5V units = 2V-Vmax)
/AI-10CC/CV.....	0-10V = 0-Imax, 5V-Vmax (5V units = 2V-Vmax)
/LT.....	-20° to +70° C temperature range
/LT40.....	-40° to +70° C temperature range
/PF.....	AC Power Fail Signal TTL or Open Collector (not available on 40W units)
/L3.....	DC Output Power Fail Signal (not available on 40W units)
/CC.....	Conformal Coating