

Triple Output Switchers

15-60 Watts CPC Series



THE **XP**ERTS IN POWER

- Low Profile
- Small, Compact PCB Format
- Isolated Auxiliary Outputs
- Low Noise
- 85-264 VAC Universal Input
- Optional Covers & Looms
- International Safety Approvals

Specification

Input

- | | |
|-----------------|--|
| Input Voltage | • 85-264 VAC (110-370 VDC) |
| Input Frequency | • 47-440 Hz |
| Inrush Current | • 60 A max at 200 V input & full load (cold start) |

Output

- | | |
|-------------------------------------|---|
| Hold-Up Time | • 10 ms min at 85 V input & full load (100 ms typical at 200 V input) |
| Output Voltage | • See Table, 5 V adjustable, V1 is isolated from V2 & V3 |
| Output Voltage Adjustment | • 5 V $\pm 5\%$ |
| Output Voltage Set Point | • $\pm 6\%$ max |
| Line Regulation | • 0.4% max over specified input range |
| Load Regulation | • 2% 5 V output, 1% auxiliary outputs |
| Ripple & Noise | • 40 mV pk-pk typical (180 mV pk-pk max) |
| Minimum Load | • No minimum load - See Note 3 |
| Short Circuit & Overload Protection | • Operates >105% of rating auto recovery |
| Overvoltage Protection | • Operates >115% of rating +5 V output |

General

- | | |
|---------------------|--|
| Switching Frequency | • Variable frequency 40-400 kHz dependant on line & load |
| Efficiency | • 70-72% typical |

Isolation

- Input to output 3000 VAC for 1 min, 500 VDC, 50 Mohm
- Input to earth 2000 VAC for 1 min, 500 VDC, 50 Mohm
- Output to earth 500 VAC for 1 min, 500 VDC, 50 Mohm

Leakage Current

- 0.75 mA max.

Mating Connectors

- Available as an option

Cable Looms

- Available as an option

Covers

- Available as an option

Environmental

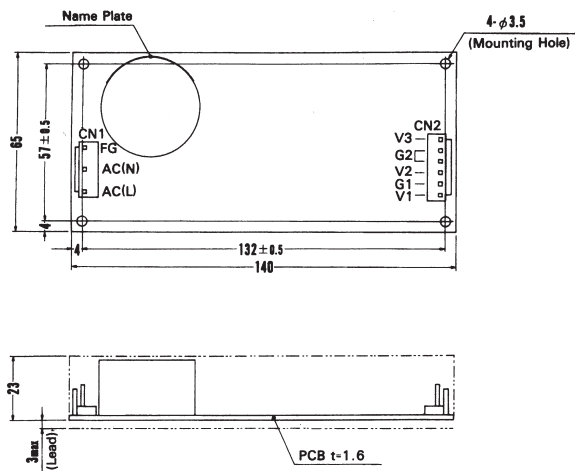
- | | |
|-----------------------|--|
| Operating Temperature | • -10°C to +70°C, derate above +50 °C Consult Sales Office |
| Storage Temperature | • -20 °C to +75 °C |
| Relative Humidity | • 20-90% non-condensing |
| Vibration | • 10-55 Hz at 2 G, 3 mins period for 60 mins along X, Y & Z axis |
| Shock | • 20 G for 11 ms, once on X, Y & Z axis |

EMC & Safety

- | | |
|------------------|---|
| EMC | • FCC curve B, EN55022B |
| Safety Approvals | • Approved to UL1950, IEC950, CSA22.2 No.234, EN60950 |

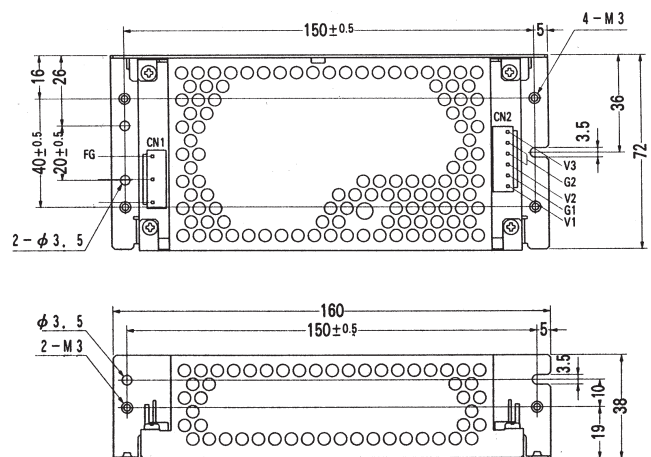
Mechanical Details - 30 Watt Models

PCB Version



Fuse Rating 250 V T3 A

Covered Version



Supplied as cover kit (not fitted). Order as **CPC30/COVER KIT**
Supplied fitted use suffix C e.g. CPC30UT1-C

PIN ASSIGNMENT

CN1	
Pin No.	Input
1	AC(L)
2	
3	AC(N)
4	
5	FG

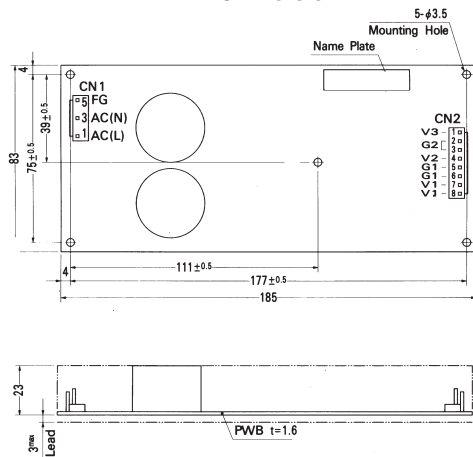
CN2	
Pin No.	Input
1	V 3
2	G 2
3	G 2
4	V 2
5	G 1
6	V 1

NOTES:

2 A per pin maximum for CN2
Weight: 220g or less
Tolerance: ± 1
Dimensions in mm
PWB Material: Glass composite (CEM3)

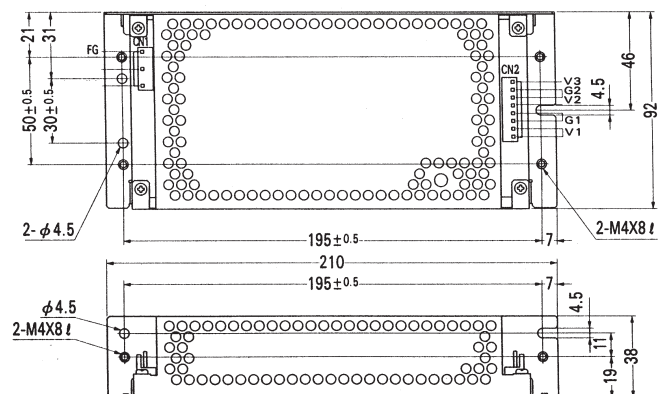
Mechanical Details - 60 Watt Models

PCB Version



Fuse Rating 250 V T3 A

Covered Version



Supplied as cover kit (not fitted). Order as **CPC60/COVER KIT**
Supplied fitted use suffix C e.g. CPC60UT1-C

PIN ASSIGNMENT

CN1	
Pin No.	Input
1	AC(L)
2	
3	AC(N)
4	
5	FG

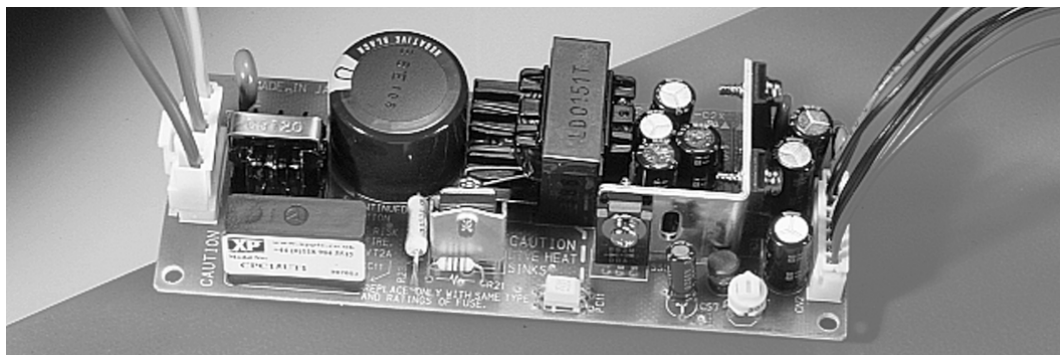
CN2	
Pin No.	Input
1	V 3
2	G 2
3	G 2
4	V 2
5	G 1
6	G 1
7	V 1
8	V 1

NOTES:

5 A per pin maximum for CN2
Weight: 300g or less
Tolerance: ± 1
Dimensions in mm
PWB Material: Glass composite (CEM3)

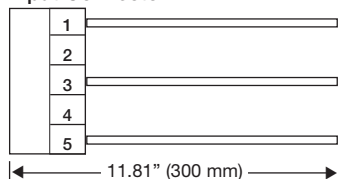
LOOM KITS

CPC



Loom Kit - 15 Watt Models

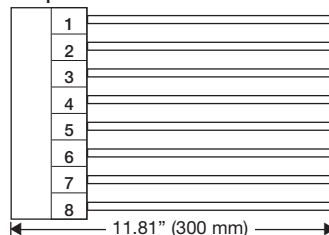
Input Connector



Pin No.	Wire Gauge	Colour	Input
1	0.5 mm	Brown	L
2	-	-	-
3	0.5 mm	Blue	N
4	-	-	-
5	0.5 mm	Grn/Yel	E

Order as CPC 15 Loom KT

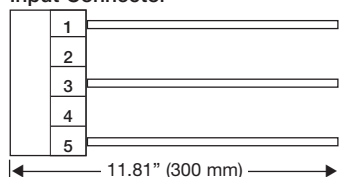
Output Connector



Pin No.	Wire Gauge	Colour	Output
1 & 2	22 AWG	Red	V 1
3 & 4	22 AWG	Black	G 1
5	22 AWG	Yellow	V 2
6 & 7	22 AWG	Black	G 2
8	22 AWG	Grey	V 3

Loom Kit - 30 Watt Models

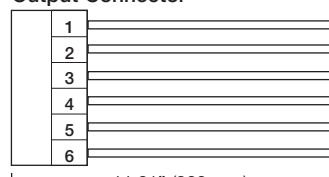
Input Connector



Pin No.	Wire Gauge	Colour	Input
1	0.5 mm	Brown	L
2	-	-	-
3	0.5 mm	Blue	N
4	-	-	-
5	0.5 mm	Grn/Yel	E

Order as CPC 30 Loom KT

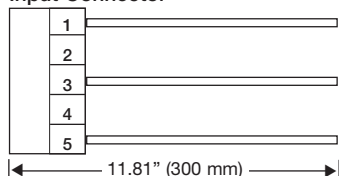
Output Connector



Pin No.	Wire Gauge	Colour	Output
1	0.5 mm	Grey	V 3
2 & 3	0.5 mm	Black	G 2
4	0.5 mm	Yellow	V 2
5	0.5 mm	Black	G 1
6	0.5 mm	Red	V 1

Loom Kit - 60 Watt Models

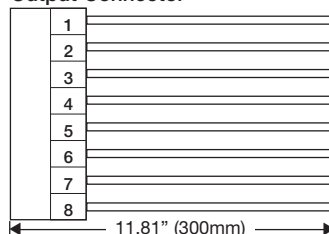
Input Connector



Pin No.	Wire Gauge	Colour	Input
1	0.5 mm	Brown	L
2	-	-	-
3	0.5 mm	Blue	N
4	-	-	-
5	0.5 mm	Grn/Yel	E

Order as CPC 60 Loom KT

Output Connector



Pin No.	Wire Gauge	Colour	Output
1 & 2	0.5 mm	Grey	V 3
2 & 3	0.5 mm	Black	G 2
4	0.5 mm	Yellow	V 2
5 & 6	0.5 mm	Black	G 1
7 & 8	0.5 mm	Red	V 1