

Power Management

Power Distribution Units

19-inch Horizontal 13 amp (3 pin) Power Distribution Units

Cannon 2U 19 inch horizontal UK Power Distribution Units are for 19 inch rack mounting combining the strength, rigidity and safety of an all metal body construction.

- Fitted with 5, 6, 10 UK outlets
- Unswitched with green neon indicator
- Complete with 3m cable and fused, moulded 13 amp plug or 16 Amp or 32 Amp Commando plug.
- External M5 earth stud

Options/upgrades

- Optional switch and switch cover
- RFI Filter 10 Amp or 16 Amp
- 5 Meter lead
- 1U versions available
- 3U versions available

Materials and finish

Powder painted Velvet Black to RAL 9005.
Other colours available on request.

Order Codes

13 Amp Plug

No. of outlets	Order code
5	255E04510503
6	255E04510603
10	255E04511003 (4U)

16 Amp Commando Plug

No. of outlets	Order code
5	255E04540503
6	255E04540603
10	255E04541003 (4U)

32 Amp Commando Plug

No. of outlets	Order code
5	255E04640503
6	255E04640603
10	255E04641003 (4U)

19-inch Horizontal IEC Power Distribution Units

Cannon 2U 19 inch horizontal UK Power Distribution Units are for 19 inch rack mounting combining the strength, rigidity and safety of an all metal body construction.

- Fitted with 6, 8, 10, 12, 16 IEC outlets
- Unswitched with green neon indicator
- Complete with 3m cable and fused, moulded 13 amp plug, as standard
- External M5 earth stud
- IEC: 10 Amp (C14) or 16 Amp (C20)

Options/upgrades

- Optional switch and switch cover
- RFI Filter 10 Amp or 16 Amp
- 5 Meter lead

Materials and finish

Powder painted Velvet Black to RAL 9005.
Other colours available on request.

Order Codes

10 Amp (C14)

No. of outlets	Order code
6	255E11510603
8	255E11510803
10	255E11511003
12	255E11511203
16	255E11511603

16 Amp (C20)

No. of outlets	Order code
6	255E18510603
8	255E18510803
10	255E18511003
12	255E18511203
16	255E18511603

All Power Distribution Units are also available with 16 Amp or 32 Amp Commando plugs.



Size conversions: 1U = 44.45mm = 1 3/4" 600mm = 24" 700mm = 28" 800mm = 32" 1kg = 2.2lbs

Power Management

Power Distribution Units

Vertically Mounted 13 amp (3 pin) Power Distribution Units

Cannon Vertically Mounted UK 13 Amp Power Distribution Units.

- Fitted with 6, 8, 10, 12, 15 UK 13 Amp outlets
- Unswitched with green neon indicator
- Complete with 3m cable and fused, moulded 13 amp plug, as standard
- External M5 earth stud

Options/upgrades

- Optional switch and switch cover
- RFI Filter 10 Amp or 16 Amp
- 5 Meter lead

Materials and finish

Powder painted Velvet Black to RAL 9005.
Other colours available on request.

Order Codes

13 Amp Plug	
No. of outlets	Order code
6	325E04510603
8	325E04510803
10	325E04511003
12	325E04512003
15	325E04515003

16 Amp Commando Plug	
No. of outlets	Order code
6	325E04540603
8	325E04540803
10	325E04541003
12	325E04542003
15	325E04545003

32 Amp Commando Plug	
No. of outlets	Order code
6	325E04640603
8	325E04640803
10	325E04641003
12	325E04642003
15	325E04645003

Vertically Mounted IEC Power Distribution Units

- Fitted with 6, 8, 10, 12, 16 IEC outlets
- Unswitched with green neon indicator
- Complete with 3m cable and fused, moulded 13 amp plug as standard
- External M5 earth stud
- IEC: 10 Amp (C14) or 16 Amp (C20)

Options/upgrades

- Optional switch and switch cover
- RFI Filter 10 Amp or 16 Amp
- 5 Meter lead

Materials and finish

Powder painted Velvet Black to RAL 9005.
Other colours available on request.

Order Codes

10 Amp (C14)	
No. of outlets	Order code
6	355E03510603
8	355E03510803
10	355E03511003
12	355E03511203
16	355E03511603

16 Amp (C20)	
No. of outlets	Order code
6	355E08510603
8	355E08510803
10	355E08511003
12	355E08511203
16	355E08511603

All Power Distribution Units are also available with 16 Amp or 32 Amp Commando plugs.



Further details on sockets and plugs can be found in Technical Section – Page 6.7

Size conversions: 1U = 44.45mm = 1 3/4" 600mm = 24" 700mm = 28" 800mm = 32" 1kg = 2.2lbs

Power Management

Power Distribution Units

High Resilience Satellite Power Distribution Unit

A convenient and compact power distribution solution which provides plug to socket locking devices to prevent inadvertent disconnect in densely populated installations.

- Effective
- Resilient
- Versatile
- Economical
- Safe

Features

- Plug to socket locking devices at each outlet
- 16 Amp and 32 Amp versions for power hungry infrastructure
- Next control box with a satellite power distribution units
- Cabling options to ease configuration

Master Unit (Control Box):

- 1U 19-inch horizontally mounted unit
- 2 power feeds to the back of the unit via 3m leads with 32A 2P+E BS4343 plugs
- Each feed supplies power to a pair of 16A single pole MCBs on the front of the unit
- MCBs have a clear perspex cover for protection but allows inspection of the MCBs
- Red neon power indicators show the condition of the MCBs
- Each of the 16A MCBs supplies a Wago power outlet

Satellite Power Distribution Units:

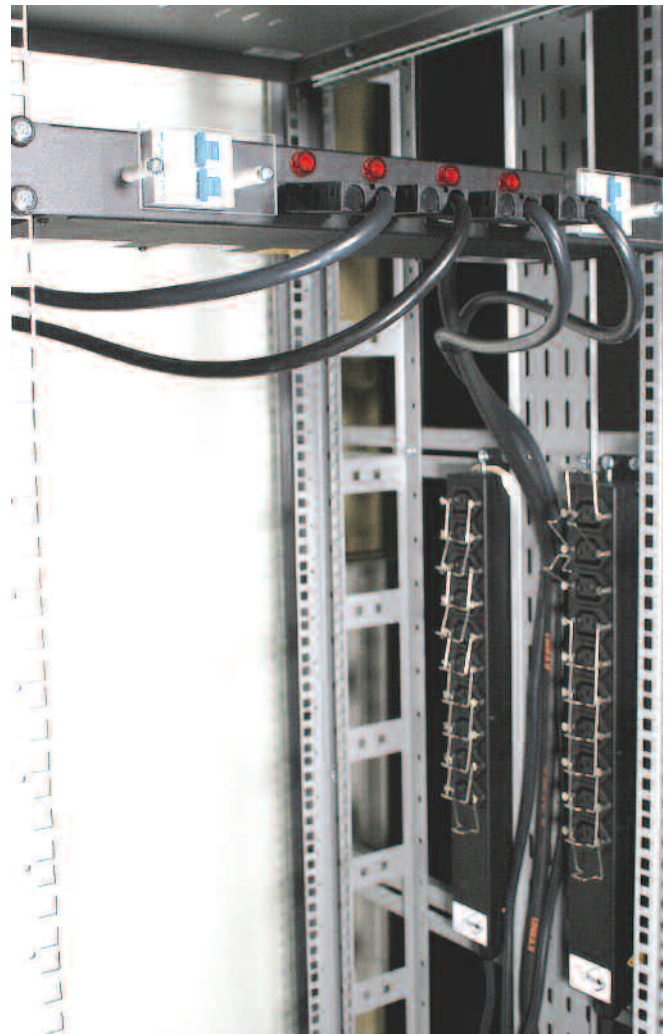
- Four vertically mounted satellite power distribution units (PDUs)
- 3m LSOH lead and compatible Wago connector
- Each PDU has 10 x 10 amp power outlets with a wire retaining clip

Material & Finish: Black powder coated mild steel construction with an external earth stud on each of the 5 units.

Note: PDUs can be mounted horizontally or vertically.

Order Codes

Description	Order code
Control Box (only)	385E00000059LS0H-A
10 Way IEC Satellite PDU (each)	385E00000059LS0H-B
Control Box with 4 Satellite PDU's (2 x 16A and 2 x 32A)	385E00000059LS0H
Control Box with 4 Satellite PDU's (Vertical sockets)	385E00000065LS0H
LSOH - Low Smoke 0 (Zero) Halogen	



Additional cable assemblies

IEC C13 to IEC C14 on various length
1.0m H07RNF cable

Description	Order code
2.00M	EC0631
3.00M	EC0632
5.00M	EC0633

Further details on sockets and plugs can be found in Technical Section – Page 6.7

Size conversions: 1U = 44.45mm = 1 3/4" 600mm = 24" 700mm = 28" 800mm = 32" 1kg = 2.2lbs

Power Management

Power Distribution Units

In-Line Digital Ammeter

Designed to solve the problem of accuracy regarding calculating how many Amps a cabinet is using at any one time.

Eliminates the need to replace existing power distribution units as the In-Line Digital Ammeter is designed to be fitted as an addition to power.

Can be supplied with many combinations of plug and socket (e.g. BS4343).

Order codes

Description	Order code
16A-with Commando plug and socket	385E19540004
13A-with 13A plug and socket	385E19510004

In-Line Digital Ammeters shown are:

- 1.) 16A fitted with 2 meter 2.5mm cable and BS4343 Commando plug and socket.
- 2.) 13A fitted with 2 meter 2.5mm cable and 13A mains plug and socket.



Material & Finish: Steel construction black powder coated with M6 earth stud.

For other Power Distribution Units to match your specific requirements and UPS options please contact the Cannon sales team.

Further details on sockets and plugs can be found in Technical Section – Page 6.7

Size conversions: 1U = 44.45mm = 1 3/4" 600mm = 24" 700mm = 28" 800mm = 32" 1kg = 2.2lbs

Power Management

Earthing Options

Vertical Earth Strip

Cannon vertical earth strips offer a full height earthing option within a cabinet with 'fast-on' connectors in groups of three. The earth strip should either be connected to the earth stud in the bottom of the cabinet or to a common horizontal earth bar, as is shown below. Other designs on request.

Order Codes	
Size	Order Code
25U	012C25000000
33U	012C33000000
42U	012C42000000
45U	012C45000000
47U	012C47000000

When required for 47U cabinets a 45U version is supplied with an additional support member.



Earth Bonding Kits

Cannon earth bonding kits consist of five terminated cables and fixings. These cables can be easily fitted to the M6 earth studs, suitably positioned in all Cannon cabinets, to provide panel and door earth bonding.

5 Terminated cables:

- Cable 1: For Top Cover
- Cable 2: For One Side Panel
- Cable 3: For One Side Panel
- Cable 4: For Front Door
- Cable 5: For Rear Door



Mounting Post Earth Bonding Kit.

Order Code	
Description	Order Code
Earth Bonding Kit	KP0223
Mounting Post Earth Bonding Kit	KP0251

19-inch (Horizontal) Earth Bar

Cannon 20 way 19-inch (horizontal) earth bar provides easily accessible earth connections at the rear of any cabinet. Connection is by screwing the earth terminal (earth terminals not supplied) to the copper bar using the M6 fixings provided.

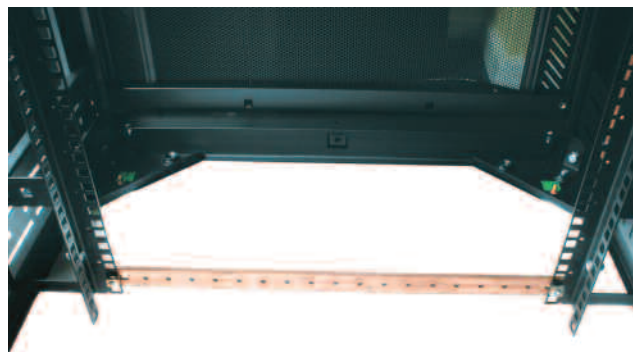
Supplied as: 1 x 19-inch earth bar (busbar) 20 way plus fixings supplied bagged separately:

- 22 x M6x16 Pozi pan head screws
- 20 x M6 Flat form washers

As supplied

- 20 x M6 Shake-proof washer
- 20 x M6 Flanged shake-proof nut
- 2 x M6 Cage nuts

Order Code	
Description	Order code
19 inch Earth Bar	012C01480500



Size conversions: 1U = 44.45mm = 1 3/4" 600mm = 24" 700mm = 28" 800mm = 32" 1kg = 2.2lbs

Power Management

Earthing Options

Vertical Earth Bar

Cannon 64 way vertical earth bar provides easily accessible earth connections the full height of any cabinet. Connection is by screwing the earth terminal (earth terminals not supplied) to the copper bar using the M6 fixings provided.

Supplied as: 1 x earth bar (busbar) 64 way plus fixings supplied bagged separately:

- 22 x M6x16 Pozi pan head screws
- 20 x M6 Flat form washers
- 20 x M6 Shake-proof washer
- 20 x M6 Flanged shake-proof nut
- 2 x M6 Cage nuts

Order Code

Description	Order code
Vertical Earth Bar	012C42020001



Vertical Earth Rail

1 Meter earth rail able to be fitted vertically into any Cannon cabinet.

Supplied as:

- 1 x length earth rail 10mm x 3mm x 1000mm
- 3 x insulated mounting blocks
- 1 x large terminal 16 – 35mm conductor
- 10 x small terminal 1.5 – 4mm conductor
- 3 x M5x16 pozi pan head screw BZP
- 3 x M5 flange nut

Order Code

Description	Order code
Earth Rail 1M	CA141



ESD Bonding Stud

Electro Static Discharge bonding point for attachment of wristband whilst working within the cabinet.

Supplied: Fitted complete with label.

Order Code

Description	Order Code
ESD Bonding Point	EA0231



Anti-static fabric wrist band for ESD grounding

- Fully adjustable, elastic
- 1.8 Coil lead length
- Stud size 10
- Press stud termination type





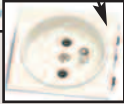


Order Code

Description	Order Code
Anti-static Wrist Band	EA0232

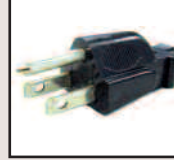


Size conversions: 1U = 44.45mm = 1 3/4" 600mm = 24" 700mm = 28" 800mm = 32" 1kg = 2.2lbs







Power Distribution Unit - Plug Guide

Socket	Rating	Alt. Names	Panel Mount Socket	Trailing Socket	Plug
UK	13A	BS1363			
SCHUKO	16A	European CEE7	 		

Notes: The standard plug and socket adopted for most of Continental Europe is CEE7/7, also known as the Schutzkontaktsteckdose plug and socket, or Schuko for short. These are sometimes referred to as a Euro plug and socket, this is incorrect. The Euro plug and socket or CEE7/16 is a 2.5Amp two pin un-earthed plug and is not used in our industry. The Earth in the Schuko plug is achieved through the scraping clips on the inside of the socket. The French / Belgian socket differs slightly in that it has an Earth pin although the plug is the same.

NEMA	15A	N/A		N/A	
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Notes: Works on the US electrical system of 110-125V. Not compatible with the European 230V system

IEC C13/C14	10A	Kettle plug/socket IEC 60320	 C13	 C13	 C14
IEC C19/C20	16A	IEC 60320	 C19	 C19	 C20

Notes: The initials IEC stand for International Electro-technical Commission, who are an International body of technical experts from within the manufacturing industries and various national test houses. Their publications are not 'a standard' as such, but are a set of recommendations that form the basis of most of the national standards in Europe and Australia. You will often hear the phrase 'IEC' used to describe a type of plug or socket, usually referred to as a kettle type connector. This seems to have developed as an incorrect generic term that we all tend to use (and will continue to use in this text). To muddy the waters straight away, you will notice that the connector on your kettle has a raised section inside the inlet. These types of inlets are actually IEC C15 & IEC C16; we don't normally use this type of connector in our industry. The most important term used to clarify exactly what you want is the 'C' Number: Below are a few examples of 'IEC' plugs and sockets covered by the standard IEC 60320. I have included the higher rated C19 & C20 as they are becoming more common for connections to UPSs. The current ratings quoted are based on VDE (Verband Deutscher Elektrotechniker) approvals, not UL (Underwriters Laboratory).

BS4343	16A & 32A	Commando IEC 60309			
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Notes: The next group of plugs and sockets causes just as much confusion. They go by a range of names, Commando, BS4343, IEC60309 and Industrial. Most people use the name 'Commando' but this is a registered name of MK Electric, so is an incorrect generic name, in the same way we call a vacuum cleaner a Hoover. Having said that, we'll stick to the term 'Commando' to save confusion.

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