

- ✂ Series of stainless steel metal enclosures
- ✂ Flexible combinations of power input and output connections
- ✂ 1, 2 or 4 power supply versions
- ✂ Ingress protection rating of IP66

DESCRIPTION

The Lighting & Power Unit Type LPU57 is a series of stainless steel metal enclosures fitted with power input connectors and output connectors. The LPU57 is designed to house suitably certified equipment such as the Austdac AC36W and other permissible modules.

The LPU57 is available as a 1, 2 or 4 module unit. These are identified as LPU57-1, LPU57-2 and LPU57-4.

The LPU57 has two integral mounting flanges, screw fastened removable cover, various combinations of power feeder gland ports or connectors and output I.S. connector ports. The interior of the LPU57 has sufficient volume to house an Austdac suitably certified module such as the Type AC36W power supply. The LPU57 has an ingress protection rating of IP66.

Power is provided to the enclosed power supply or permissible module via suitable explosion protected cables passed through Ex e gland or Ex de connector mounted in the wall of the LPU57 enclosure. A second Ex e gland or Ex de connector is provided to allow power to be looped in and out of several LPU57 enclosures. Terminal blocks are provided within the LPU57 to terminate incoming and outgoing power feeder cables as well as terminating power input connections of the permissible module. The maximum current in the feeder cable is limited to 35 amperes.

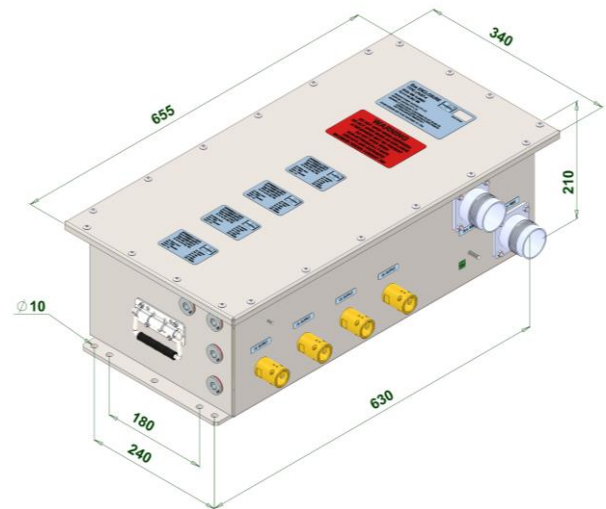


Figure 1 - LPU57-4

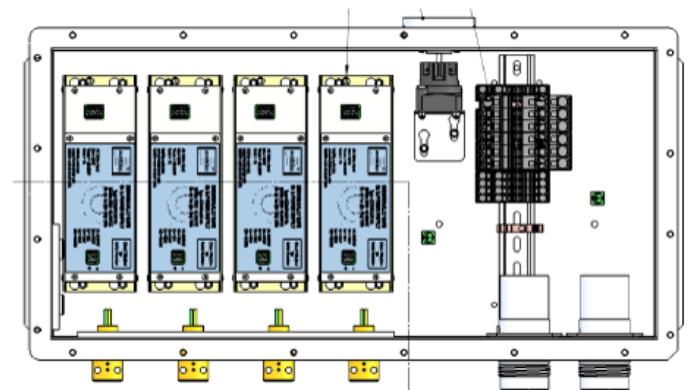


Figure 2 - LPU57-4 with cover removed showing a typical layout.

The exterior and interior of the LPU57 enclosure are provided with earth studs to allow connection of earthing facilities to maintain the certification and installation requirements of the separately certified permissible module or power supply unit.

CERTIFICATION

The LPU57 has been awarded IECEx certification certificate number IECEx SIM 14.0002X. The LPU57 marking code is as follows, Ex d e ma [ia] I Mb.



SPECIFICATIONS

GENERAL

Name	Lighting & Power Unit
Type	LPU57
Mounting hole size	10mm (0.3937") (See figures for locations)
Size – LPU57-1	295mm (D) x 340mm (W) x 145mm (H), 11.61" (D) x 13.38" (W) x 5.71" (H)
Size – LPU57-1 TALL	355mm (D) x 315mm (W) x 195mm (H) 13.98" (D) x 12.40" (W) x 7.68" (H)
Size – LPU57-2	495mm (D) x 340mm (W) x 200mm (H) 19.49" (D) x 13.38" (W) x 7.87" (H)
Size – LPU57-4	655mm (D) x 340mm (W) x 200mm (H) 25.78" (D) x 13.38" (W) x 7.87" (H)
Mass (no module fitted)	10kg (22 pounds)
Material	304 #4 stainless steel
Ambient temperature	-20°C - 40°C (-4°F - 104°F)
Ingress protection	IP66
Maximum feeder cable current	35A rms
Maximum operating voltage	Limited by module parameters or 250V rms whichever is lower

POWER INPUT

Power input to the LPU57 may be via an Ex de connector or via cable and an Ex e gland. The power circuit must include a pilot circuit to de-energise the power in the event that the power circuit is broken. In the case of a cable and gland arrangement the cable should be rated to a minimum of 90°C.

CABLE GLANDS

The LPU57 is certified to allow separately certified cable glands to be fitted to allow entry of power feeder cables. The certification of the cable glands must match that of the area of installation and use. Only cable glands that provide a minimum ingress protection rating of IP66 should be used with the LPU57. Cable glands should be installed in accordance with the gland manufacturer's instructions and in such a way to preserve the IP66 ingress protection rating of the enclosure.

TERMINATIONS

The LPU57 provides terminals for the termination of the power feeder cables. The LPU57 is supplied with terminals capable of terminating 16mm² conductors. A M6 earth stud is also provided adjacent to power conductor terminations to allow for earth termination of feeder cable screens or braids.

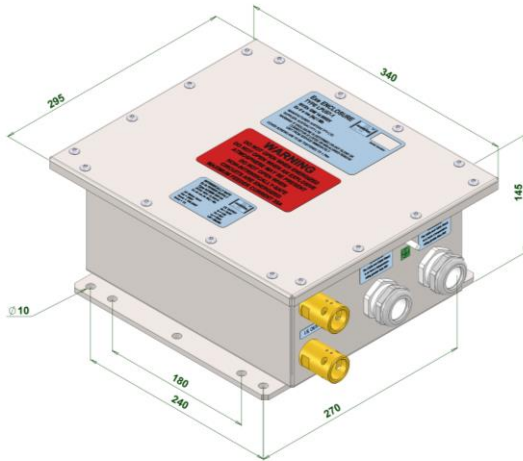
The terminal blocks used within the LPU57 to terminate the feeder cables are of a spring clamp construction i.e. the conductors are not clamped by tightening a screw they are clamped by a spring mechanism. The spring clamp is opened by inserting a 3mm flat blade screw driver into the rectangular control slot of the terminal.

Conductors require 18-20mm of the insulation to be removed. An optional 18mm insulated ferrule may be fitted.

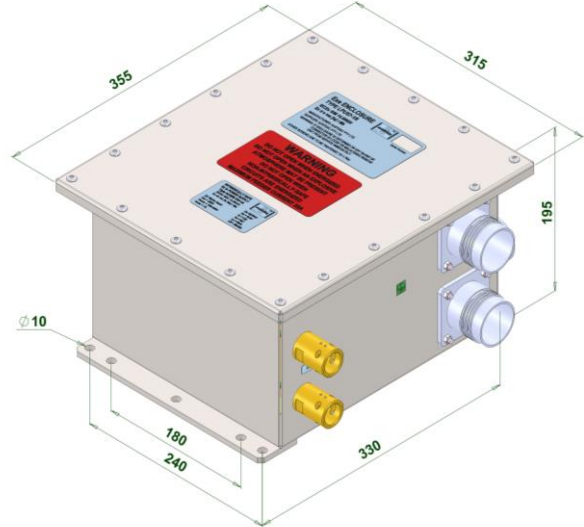




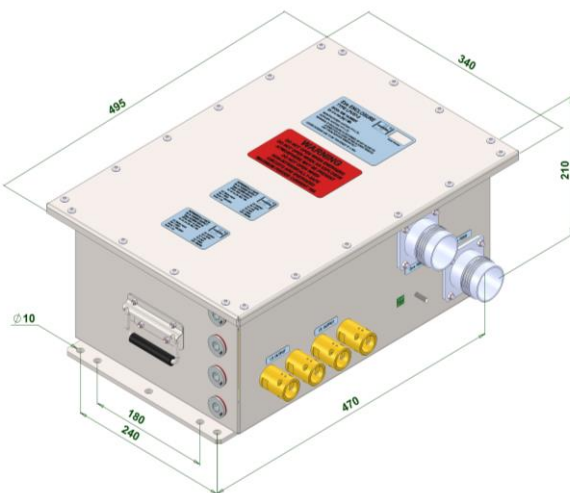
LPU57-1



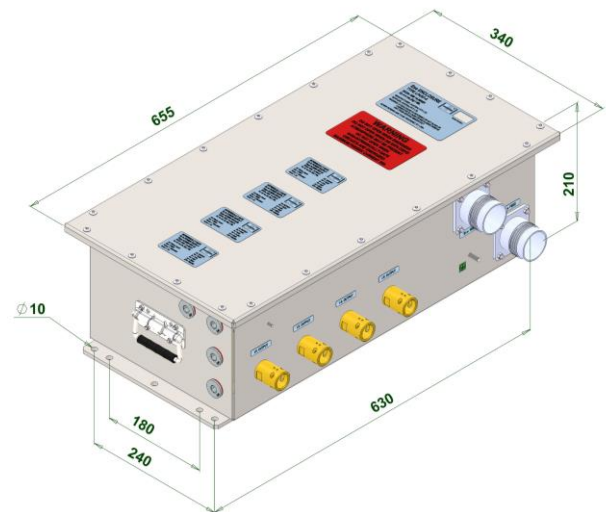
LPU57-1 TALL



LPU57-2



LPU57-4



DESCRIPTION	ORDER CODE
LPU57 – VARIOUS CONFIGURATIONS – see above	Please contact customer service for full order code details



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