



Technical Information

PL6 Series GRP Enclosures

General

These enclosures are a self coloured black anti-static glass reinforced polyester design that meet the requirements of EExe to EN50014 & EN50019.

The PL6 Series enclosures are of a robust design with a very high impact strength of up to 20Nm and have excellent electrical insulation properties.

Application

These enclosures may be supplied with fitted terminals or as an empty component approved enclosure. If supplied as the latter, then final certification by the customer after fitting their own equipment must be obtained. In this case the prefix 'Z' is used ie. ZPL612.

Specification

Certification :	⊕ II2 GD EExe II. (Ⓢ and Ⓛ _{US} options available).
Zones of Use :	Zone 1, Zone 2, Zone 21 & Zone 22.
Temperature Class & Ambients :	T6 40°C as standard. Optional T5 with ambients up to 65°C.
Operating Temperature Range :	-60°C to +75°C.
Degree of Protection :	IP66, IP67 and Deluge proof to DTS01.
Material :	Glass Reinforced Polyester. Flame Retardant to (IEC92.1 clause 2.38).
Finish :	Natural Black.
Impact Resistance :	Up to 20Nm.
Weatherproofing :	By captive moulded clear silicone gasket.
Certification Label :	Stainless Steel or optional certified self adhesive foil.
Lid Fixing Screws :	Stainless Steel (complete with nylon retaining washer).
Additional Options :	Breather/Drain devices. Internal/external earth stud. Epoxy paint finish for colour coding. EMI/RFI coating for EMC requirements. Stainless Steel or laminated plastic (traffolyte) for external use only or optional (certified) self adhesive foil for external and/or internal use.
Additional Labels :	

Earth Continuity

These enclosures may be fitted with an earth continuity plate in plated mild steel as standard or optional brass when requested by the customer. (Note: A locknut is required on cable glands and metal stopping plugs to ensure earth continuity through the plate).

Technical Notes

- To ensure that the maximum temperature as permitted by certification is not exceeded, the Dissipated Wattage Factor Formula is used : $W = N \times F \times I^2$. (See page 38 for enclosure wattage).
- It is not permitted to fit more than one conductor per side in rail or direct mounted terminals unless using an insulated Bootlace Ferule.
- Different quantities of terminals. Linked and mixed terminal arrangements other than those specified in the data tables are available but the voltage and current figures will be affected to ensure the maximum certified wattage factor is not exceeded. Please contact Hawke Technical Sales.
- When connecting a terminal with a conductor that is less than maximum size permitted for that terminal type, the maximum amps per pole must be reduced to suit. i.e. an RM10 (10mm²) terminal fitted with a 4mm² conductor will have the current rating reduced to that of the current rating permitted through the RM4 (4mm²) terminal.
- For Intrinsically Safe Applications, EExe power terminals can be supplied in blue on request. (Note: the enclosure will remain EExe certified).
- An earth terminal must be fitted inside the enclosure in accordance with EN 50014 : 1997 : clause 15.4. (Note: Power terminals may be used as 'clean earths').
- The enclosure has tapped Metric entry threads as standard. Alternative parallel threads are available provided they are to a recognised standard eg. BSPP, ET etc. Tapered threads are not permitted in plastic enclosures due to risk of stress cracking.
- The customer may drill and tap entry holes in the enclosure providing they are in accordance with the relevant code of practice and comply with the details shown in this catalogue.
- When mixed entries are accommodated on a face they must be in the positions shown in this catalogue for the largest gland entry on that face. For complex mixed entries contact Hawke Technical Sales.
- Entries into the enclosure must be via a suitable approved entry device.
- All unused entry holes must be fitted with a stopping plug as listed on the enclosures 'ATEX' certificate only.