

Power Cluster Assemblies for Aircraft Hangars and Hardened Aircraft Shelters

Power Clusters are multi-voltage distribution assemblies incorporating a range of sockets fed from a single incoming supply. They are configured to meet specific installation requirements, to ensure operators are provided with the full range of power supplies required.

Price comparisons between fitting a Power Cluster in place of individual socket outlets show a proven reduction in the overall cost of the installation.

Power Clusters for Ground Support Equipment (GSE)

Traditionally 230V / 400V 50 Hz outlets for GSE have been individual units manufactured to DOE Standard SEG 148 and MoD Technical Bulletin TB 97/40. The latest revision of the Technical Bulletin is TB 03/05, which can be applied to both single-socket assemblies or multi-socket Power Clusters.



Blakley Power Clusters can be offered as free-standing or wall mounting assemblies. Each assembly incorporates an incoming MCCB Isolator and Emergency Stop push button.

A range of single and three-phase sockets can be incorporated at 16A, 32A, 63A and 125A. Circuit protection meets the requirements of TB 03/05 with each socket incorporating MCB, RCD and PEMs protection.

To simplify use and maximise on-site flexibility, each socket includes associated ON / OFF Push Button control, Diode Reversal Switch, Pilot Core Protection Selection Switch, Trip Indication and Test Buttons.

For Workshop Facilities additional 110V sockets to BS EN 60309-2 can be incorporated (including integral transformer) as well as 13A 230V sockets to BS1363.

The whole assembly is designed, manufactured and tested in accordance with our accreditation to ISO9001:2000.



T H E P O W E R P R O F E S S I O N A L S

HIGHER POWER TRANS POWER SAFE POWER TEM POWER PRO POWER GREEN POWER

THE COMPANY RESERVES THE RIGHT TO CHANGE PRODUCTS WITHOUT PRIOR NOTICE.



Cert. No. 902091

PPDS5 - 12/07

Power Cluster Assemblies Incorporating Aircraft Outlets

These Power Cluster assemblies incorporate 28V DC Aircraft Sockets, 200V 400 Hz Aircraft Sockets and 230V / 400V 50 Hz PEMs protected sockets rated at 16A, 32A, 63A or 125A.

The Power Cluster receives a 400V 50Hz TP+N supply and an earthed 200V 400 Hz TP supply and incorporates all required interlock circuitry, switchgear, controlgear, transformers and transformer rectifier sets to provide aircraft supplies in accordance with BS2G219 and 50Hz supplies protected in accordance with TB 03/05.

Aircraft Outlets

1 no. 28V DC aircraft socket to BS 4G173 supplied from an integral 415V to 28V DC 2 kW transformer rectifier set.

The 28V DC supply quality is in accordance with BS2G219 and is also “user adjustable” to compensate for volts drop at the aircraft.

1 no. 200V 400Hz aircraft socket to BS 4G173 fed from an integral, 45 kVA 1:1 ratio isolating transformer (other transformer ratings can be incorporated).

The aircraft sockets are protected and interlocked in accordance with BS 4G173 and can also incorporate an interlock bypass switch when supplying Apache Helicopters.

50 Hz Outlets

A range of single and three-phase sockets can be incorporated at 16A, 32A, 63A and 125A. Circuit protection meets the requirements of TB 03/05 with each socket incorporating MCB, RCD and PEMs protection. To simplify use and maximise on-site flexibility, each socket includes associated ON / OFF Push Button control, Diode Reversal Switch, Pilot Core Protection Selection Switch, Trip Indication and Test Buttons.

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- **SOUTH** 1 Thomas Road, Optima Park, Crayford, Kent DA1 4GA Tel: 0845 074 0084 Fax: 0845 074 0085
 - **NORTH** Unit 55, Monckton Road Ind Estate, Wakefield WF2 7AL Tel: 0845 074 0086 Fax: 0845 074 0087
- www.blakley.co.uk • sales@blakley.co.uk

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