

Military Plug-in Field Distribution Equipment

Lighting & Power Distribution System (LAPDS)



LGIU
6 x 320 kVA Gen Inputs or 1 x 1600A
Host Nation Supply (HNS)
6 no. 800A TP Outputs



GIU - 4 x 250 kVA Gen
Inputs or 1 x 800A from
LGIU or HNS
12 x 400V Outlets up to 63A



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Inputs or 1 x 800A from
LGIU or HNS
12 x 400V Outlets up to 63A

LDU - 63A Input
16A 110V &
230V Outputs

LDU - 63A
Looped Input

UCU - 63A Input
4 x 32A 400V
Outputs

UCU - 63A
Looped Input

CDU - 63A Input
32A 400V, 16A &
32A 230V Outlets



LDU / UCU / CDU

Tent
Lighting
110V

DPU



Tent
Power
13A

Air Con
400V
32A

Misc
400V
32A
Loads

Refrig.
Con-
tainers
400V

Field
Kitchen

THE POWER PROFESSIONALS

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



Cert. No. 902091

TMPDS14 - 12/07

LAPDS is a totally plug-in, outdoor distribution system that can supply all the power needs of semi-permanent tented camps set-up virtually anywhere around the world. Three-phase and Single-phase mains power is available for Catering, Air Conditioning, Heating and Welfare Facilities and 110V Reduced Low Voltage power is provided for Tent Lighting.

LAPDS is designed to be supplied from Generators or from a permanent Host Nation Supply (HNS). The system is scaleable, enabling the same distribution assemblies to be utilised, whether fed from a single 200 kVA generator or from a farm of six synchronised 500 kVA generators.

The LAPDS distribution system comprises of six distribution assemblies and six interconnecting Cable Kits and Extension Leads. The distribution assemblies range in current rating from 3200A to 13A and Cable Kits and Extension Leads from 630A 400V to 16A 110V. An overview of the products is detailed below.

LGIU

The LGIU has 6 no. 800A 4P Generator Incoming Isolators and a 1600A 4P HNS Mains Isolator. An interlock is incorporated to prevent Generator and Mains from feeding the bus bar simultaneously. On the outgoing side, a total of 6 no. 800A 4P MCCBs each equipped with a variable time and current RCD. Each MCCB incorporates a digital multi function meter to measure kW, kVAR, Volts, Amps, PF, etc. The meter has an RS232 interface for remote monitoring. 2 no. 63A 5P 400V sockets each with overcurrent and variable time and current RCD protection are also incorporated.

GIU

The GIU has 4 no. 400A 4P Generator Incoming MCCBs and an 800A 4P HNS MCCB. An interlock is incorporated to prevent Generator and Mains from feeding the bus bar simultaneously. The HNS supply Isolator is also utilised when a GIU is employed as a sub-distribution assembly, fed from an LGIU. A digital multi function meter is incorporated to measure kW, kVAR, Volts, Amps, PF, etc. On the outgoing side the following sockets are fitted: 8 no. 63A 5P 400V, 2 no. 32A 5P 400V and 2 no. 16A 5P 400V, each with overcurrent and variable time and current RCD protection.

LDU , UCU and CDU

These three assemblies all incorporate a 63A 5P 400V Plug Inlet and through Socket Outlet.

The LDU incorporates 6 no. 16A 3P 230V sockets each MCB / RCD protected and an integral 2 kVA transformer that feeds 4 no. 16A 3P 110V sockets, MCB protected.

The UCU incorporates 4 no. 32A 5P 400V sockets each with MCB and variable time and current RCD protection.

The CDU incorporates 1 no. 32A 5P 400V socket with MCB and variable time and current RCD protection and 2 no. 16A 230V and 2 no. 32A 230V sockets each with MCB and fixed RCD protection.

DPU

The DPU is a portable, 230V, all-insulated distribution assembly. Supply input is via a 16A 3P 230V Appliance Inlet and the output is via 4 no. 13A 230V sockets to BS1363A.

Cable Kits

Cable Kits are rated at 630A, 400A or 300A and are used to connect generators to LGIUs or GIUs, and to connect LGIUs to GIUs. Each kit comprises of various lengths of single core flexible cable fitted with 400A or 630A single-pole connectors (one for each phase, neutral and earth). Short input and output leads with glands are also supplied for the final connections to the generator, GIU and LGIU. The gland plates of the GIU and LGIU are pre-punched to accept the glands.

Extension Leads

Extension Leads are all 14M in length and incorporate connectors are to BS EN 60309 rated IPX7. 400V and 230V leads utilise HO7 RN-F tough rubber cable and 110V leads utilise PVC Arctic cable with a yellow outer sheath.

400V leads are 5C and available with 32A 5P and 63A 5P connectors. 230V leads are 3C and available with 16A and 32A connectors. 110V leads are 3C and available with 16A connectors.

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