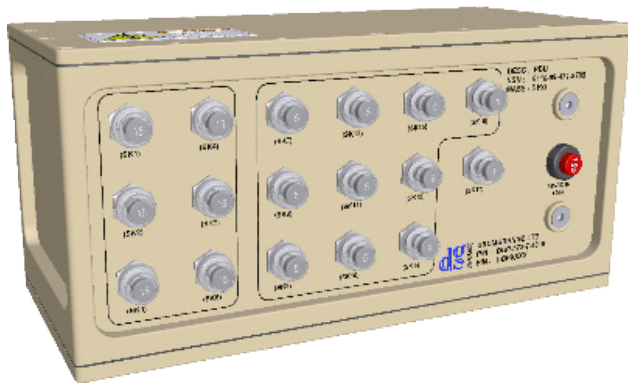


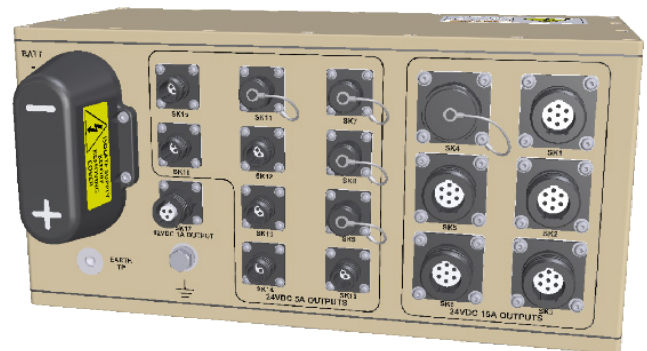
# DC Power Distribution Unit



The DC Power Distribution Unit (PDU) distributes a single source DC supply to up to 17 connected devices. The DC PDU is designed to meet the rigorous requirements of Def-Stan 61-5 Part 6 Issue 6 and provides voltage surge, over-current and reverse polarity protection for all outputs as well as attenuation of conducted emissions above 1MHz.

## Key Features

- EMC shielded enclosure
- Designed for use in harsh environments
- Max power 3300W at 24V DC
- 16 x nominal 24V DC outputs
- 1 x regulated 5V DC output
- Front end RFI/EMI filter and over-current protection
- Reverse polarity protection for a two-wire system
- Surge suppression in accordance with Def-Stan 61-5 Part 6 Issue 6 on all outputs
- Manual isolation, RFI/EMI filters and over-current protection provided for each output
- Attenuation of conducted emissions above 1MHz
- MIL-DTL-38999 spec. connectors

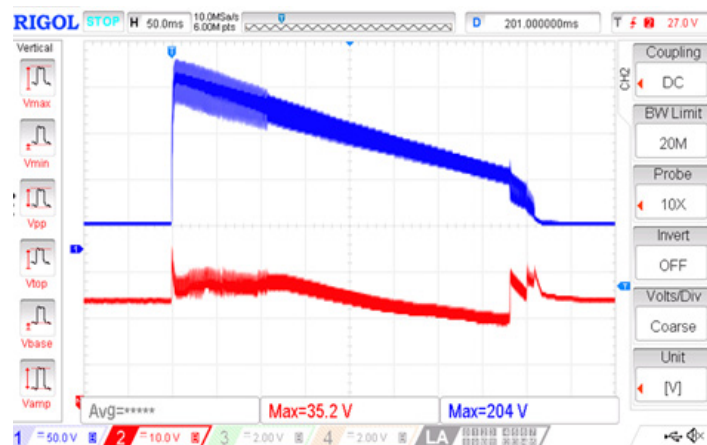


## Detailed Specification

GENERAL	
Operating Voltage:	18 to 32V DC
Current Rating:	6 x 15A outputs @ 24V DC 10 x 5A outputs @ 24V DC 1 x 1A output @ 12V DC
Controls:	Manual isolation for each output
Size (W x H x D):	300mm x 146mm x 188mm
Weight:	5.0kg
Connectors:	24V DC: Micro-38999 Series 805 12V DC: MIL-DTL-38999 Series III

OPERATING ENVIRONMENT	
Temperature:	-42 to 58°C (Def-Stan 00-35 Part 4 Issue 4 Climatic Categories A1 and C1)
Ingress Protection:	Enclosure: Designed to IP67 Connectors: IP67 when mated

Interfacing	
Def-Stan 61-5 Part 6 Issue 6	Nominal 12V and 24V DC Electrical Systems in Military Platforms
Def-Stan 59-411 Part 3 Issue 2	Test Methods and Limits for Equipment and Sub Systems
Def-Stan 00-35 Part 4 Issue 4	Environmental Handbook for Defence Material - Natural Environments
EU Directive 2011/65/EU	Restriction of the Use of Certain Hazardous Substances in Electronic and Electrical Equipment



204Vpk pulse applied at input of the DC PDU suppressed to 35Vpk pulse at DC PDU outputs.  
(Tested in accordance with Def-Stan 61-5 Load Dump Test DIT08.B).

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