

## **DD 11/32-9 036**11V to 32V Input to 9V Voltage Converter

The unit has the following key benefits:

- Quick and easy to connect
- Power rating to 36W continuous (45W intermittent)
- Switch mode design with efficiency typically 85%
- Low quiescent current (<30mA)</li>
- Internal protection against over current, transients and overheating.



## Technical Data

minutes rest.		
Continuous Current Rating Intermittent Current Rating Intermittent Current Rating 9.0V output rated at 4A continuous 9.0V output rated at 5A taken for a maximum of 2 minutes followed by minutes rest.  Transient voltage protection Meets ISO7637-2 International standard for 24Vdc commercial vehicle Electrostatic voltage protection Meets ISO10605, ISO14982, >8kV contact, 15kV discharge  Output noise Off load current (quiescent current)  Power conversion efficiency Typically: 85% Operating temperature -25°C to +30°C to meet this specification table +30°C to +80°C de rate linearly to 0A  Storage temperature Operating humidity 95% max., non-condensing Casework Anodised aluminium, dust water and impact resistance to IP533  Connections Four 6.3mm push-on flat blade connectors Weight & Dimensions Weight: 225g. Dimensions: 89 (L), x 87 (W), x 50 (H) mm  Mounting method "Click "n" Fit" mounting clip, fitted separately using three hole fixing  Safe area protection: Over current Over heat Limited by current sensing circuit  Transients Protected by filters and rugged component selection  Catastrophic failure  Protected by internal input and output fuses  Approvals	Input voltage range	Wide Input nominal (11V-32V)
Intermittent Current Rating 9.0V output rated at 5A taken for a maximum of 2 minutes followed by minutes rest.  Transient voltage protection  Meets ISO7637-2 International standard for 24Vdc commercial vehicle Electrostatic voltage protection  Meets ISO10605, ISO14982, >8kV contact, 15kV discharge  Output noise  Off load current (quiescent current)  Power conversion efficiency  Operating temperature  -25°C to +30°C to meet this specification table +30°C to +80°C de rate linearly to 0A  Storage temperature  Operating humidity  95% max., non-condensing  Casework  Anodised aluminium, dust water and impact resistance to IP533  Connections  Four 6.3mm push-on flat blade connectors  Weight & Dimensions  Weight: 225g. Dimensions: 89 (L), x 87 (W), x 50 (H) mm  Mounting method  "Click "n" Fit" mounting clip, fitted separately using three hole fixing  Safe area protection: Over current  Over heat  Limited by current sensing circuit  Transients  Protected by filters and rugged component selection  Catastrophic failure  Protected by internal input and output fuses  Approvals	Output voltage	9.0Vdc +/- 10%
minutes rest.  Transient voltage protection  Meets ISO7637-2 International standard for 24Vdc commercial vehicle  Electrostatic voltage protection  Meets ISO10605, ISO14982, >8kV contact, 15kV discharge  Output noise  SomV pk-pk Off load current (quiescent current)  Power conversion efficiency  Operating temperature  -25°C to +30°C to meet this specification table +30°C to +80°C de rate linearly to 0A  Storage temperature  -25°C to +100°C  Operating humidity  95% max., non-condensing  Casework  Anodised aluminium, dust water and impact resistance to IP533  Connections  Four 6.3mm push-on flat blade connectors  Weight & Dimensions  Weight: 225g. Dimensions: 89 (L), x 87 (W), x 50 (H) mm  Mounting method  "Click "n" Fit" mounting clip, fitted separately using three hole fixing  Safe area protection: Over current  Over heat  Limited by current sensing circuit  Transients  Protected by filters and rugged component selection  Catastrophic failure  Protected by internal input and output fuses  Approvals  Approvals	Continuous Current Rating	9.0V output rated at 4A continuous
Electrostatic voltage protection  Meets ISO10605, ISO14982, >8kV contact, 15kV discharge  Output noise  <50mV pk-pk Off load current (quiescent current) Power conversion efficiency Operating temperature -25°C to +30°C to meet this specification table +30°C to +80°C de rate linearly to 0A Storage temperature -25°C to +100°C Operating humidity 95% max., non-condensing Casework Anodised aluminium, dust water and impact resistance to IP533 Connections Four 6.3mm push-on flat blade connectors Weight & Dimensions Weight: 225g. Dimensions: 89 (L), x 87 (W), x 50 (H) mm Mounting method "Click "n" Fit" mounting clip, fitted separately using three hole fixing Safe area protection: Over current Current Limited by current sensing circuit Transients Protected by filters and rugged component selection Catastrophic failure Protected by internal input and output fuses Approvals 2004/108/EC The general EMC directive Reg 10 The automotive directive	Intermittent Current Rating	9.0V output rated at 5A taken for a maximum of 2 minutes followed by 8 minutes rest.
Output noise  SomV pk-pk Off load current (quiescent current) Power conversion efficiency Typically: 85% Operating temperature -25°C to +30°C to meet this specification table +30°C to +80°C de rate linearly to 0A Storage temperature -25°C to +100°C Operating humidity 95% max., non-condensing Casework Anodised aluminium, dust water and impact resistance to IP533 Connections Four 6.3mm push-on flat blade connectors Weight & Dimensions Weight: 225g. Dimensions: 89 (L), x 87 (W), x 50 (H) mm "Click "n" Fit" mounting clip, fitted separately using three hole fixing Safe area protection: Over current Limited by current sensing circuit Over heat Limited by temperature sensing circuit Transients Protected by filters and rugged component selection Catastrophic failure Protected by internal input and output fuses Approvals 2004/108/EC The general EMC directive Reg 10 The automotive directive	Transient voltage protection	Meets ISO7637-2 International standard for 24Vdc commercial vehicles
Off load current (quiescent current)  Power conversion efficiency Operating temperature  -25°C to +30°C to meet this specification table +30°C to +80°C de rate linearly to 0A  Storage temperature  -25°C to +100°C Operating humidity 95% max., non-condensing Casework Anodised aluminium, dust water and impact resistance to IP533  Connections Four 6.3mm push-on flat blade connectors Weight & Dimensions Weight: 225g. Dimensions: 89 (L), x 87 (W), x 50 (H) mm  Mounting method  "Click "n" Fit" mounting clip, fitted separately using three hole fixing  Safe area protection: Over current  Over heat  Limited by current sensing circuit  Transients  Protected by filters and rugged component selection  Catastrophic failure  Protected by internal input and output fuses  Approvals  2004/108/EC The general EMC directive Reg 10 The automotive directive	Electrostatic voltage protection	Meets ISO10605, ISO14982, >8kV contact, 15kV discharge
Current)  Power conversion efficiency  Typically: 85%  Operating temperature  -25°C to +30°C to meet this specification table +30°C to +80°C de rate linearly to 0A  Storage temperature  -25°C to +100°C  Operating humidity  95% max., non-condensing  Casework  Anodised aluminium, dust water and impact resistance to IP533  Connections  Four 6.3mm push-on flat blade connectors  Weight & Dimensions  Weight: 225g. Dimensions: 89 (L), x 87 (W), x 50 (H) mm  Mounting method  "Click "n" Fit" mounting clip, fitted separately using three hole fixing  Safe area protection: Over current  Over heat  Limited by current sensing circuit  Transients  Protected by filters and rugged component selection  Catastrophic failure  Protected by internal input and output fuses  Approvals  2004/108/EC The general EMC directive  Reg 10 The automotive directive	Output noise	<50mV pk-pk
Operating temperature  -25°C to +30°C to meet this specification table +30°C to +80°C de rate linearly to 0A  Storage temperature  -25°C to +100°C  Operating humidity  95% max., non-condensing  Casework  Anodised aluminium, dust water and impact resistance to IP533  Connections  Four 6.3mm push-on flat blade connectors  Weight & Dimensions  Weight: 225g. Dimensions: 89 (L), x 87 (W), x 50 (H) mm  Mounting method  "Click "n" Fit" mounting clip, fitted separately using three hole fixing  Safe area protection: Over current  Current  Over heat  Limited by current sensing circuit  Transients  Protected by filters and rugged component selection  Catastrophic failure  Protected by internal input and output fuses  Approvals  2004/108/EC The general EMC directive  Reg 10 The automotive directive	· ·	<30mA
+30°C to +80°C de rate linearly to 0A  Storage temperature -25°C to +100°C  Operating humidity 95% max., non-condensing  Casework Anodised aluminium, dust water and impact resistance to IP533  Connections Four 6.3mm push-on flat blade connectors  Weight & Dimensions Weight: 225g. Dimensions: 89 (L), x 87 (W), x 50 (H) mm  Mounting method "Click "n" Fit" mounting clip, fitted separately using three hole fixing  Safe area protection: Over current  Over heat Limited by current sensing circuit  Transients Protected by filters and rugged component selection  Catastrophic failure Protected by internal input and output fuses  Approvals 2004/108/EC The general EMC directive  Reg 10 The automotive directive	Power conversion efficiency	Typically: 85%
Storage temperature  -25°C to +100°C  Operating humidity  95% max., non-condensing  Casework  Anodised aluminium, dust water and impact resistance to IP533  Connections  Four 6.3mm push-on flat blade connectors  Weight & Dimensions  Weight: 225g. Dimensions: 89 (L), x 87 (W), x 50 (H) mm  Mounting method  "Click "n" Fit" mounting clip, fitted separately using three hole fixing  Safe area protection: Over current  Limited by current sensing circuit  Over heat  Limited by temperature sensing circuit  Transients  Protected by filters and rugged component selection  Catastrophic failure  Protected by internal input and output fuses  Approvals  2004/108/EC The general EMC directive  Reg 10 The automotive directive	Operating temperature	-25°C to +30°C to meet this specification table
Operating humidity  95% max., non-condensing  Casework  Anodised aluminium, dust water and impact resistance to IP533  Connections  Four 6.3mm push-on flat blade connectors  Weight & Dimensions  Weight: 225g. Dimensions: 89 (L), x 87 (W), x 50 (H) mm  Mounting method  "Click "n" Fit" mounting clip, fitted separately using three hole fixing  Safe area protection: Over current  Limited by current sensing circuit  Over heat  Limited by temperature sensing circuit  Transients  Protected by filters and rugged component selection  Catastrophic failure  Protected by internal input and output fuses  Approvals  2004/108/EC The general EMC directive  Reg 10 The automotive directive		+30°C to +80°C de rate linearly to 0A
Casework  Anodised aluminium, dust water and impact resistance to IP533  Connections  Four 6.3mm push-on flat blade connectors  Weight & Dimensions  Weight: 225g. Dimensions: 89 (L), x 87 (W), x 50 (H) mm  Mounting method  "Click "n" Fit" mounting clip, fitted separately using three hole fixing  Safe area protection: Over current  Limited by current sensing circuit  Over heat  Limited by temperature sensing circuit  Transients  Protected by filters and rugged component selection  Catastrophic failure  Protected by internal input and output fuses  Approvals  2004/108/EC The general EMC directive  Reg 10 The automotive directive	Storage temperature	-25°C to +100°C
Connections Four 6.3mm push-on flat blade connectors  Weight & Dimensions Weight: 225g. Dimensions: 89 (L), x 87 (W), x 50 (H) mm  Mounting method "Click "n" Fit" mounting clip, fitted separately using three hole fixing  Safe area protection: Over current sensing circuit  Over heat Limited by temperature sensing circuit  Transients Protected by filters and rugged component selection  Catastrophic failure Protected by internal input and output fuses  Approvals  2004/108/EC The general EMC directive  Reg 10 The automotive directive	Operating humidity	95% max., non-condensing
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Mounting method  "Click "n" Fit" mounting clip, fitted separately using three hole fixing  Safe area protection: Over current  Limited by current sensing circuit  Cover heat  Limited by temperature sensing circuit  Transients  Protected by filters and rugged component selection  Catastrophic failure  Protected by internal input and output fuses  Approvals  2004/108/EC The general EMC directive  Reg 10 The automotive directive	Connections	Four 6.3mm push-on flat blade connectors
Safe area protection: Over current  Over heat  Limited by temperature sensing circuit  Transients  Protected by filters and rugged component selection  Catastrophic failure  Protected by internal input and output fuses  Approvals  2004/108/EC The general EMC directive  Reg 10 The automotive directive	Weight & Dimensions	Weight: 225g. Dimensions: 89 (L), x 87 (W), x 50 (H) mm
Current  Over heat  Limited by temperature sensing circuit  Transients  Protected by filters and rugged component selection  Catastrophic failure  Protected by internal input and output fuses  Approvals  2004/108/EC The general EMC directive  Reg 10 The automotive directive	Mounting method	"Click "n" Fit" mounting clip, fitted separately using three hole fixing
Transients Protected by filters and rugged component selection  Catastrophic failure Protected by internal input and output fuses  Approvals 2004/108/EC The general EMC directive Reg 10 The automotive directive	•	Limited by current sensing circuit
Catastrophic failure Protected by internal input and output fuses  Approvals 2004/108/EC The general EMC directive  Reg 10 The automotive directive	Over heat	Limited by temperature sensing circuit
Approvals  2004/108/EC The general EMC directive  Reg 10 The automotive directive	Transients	Protected by filters and rugged component selection
Reg 10 The automotive directive	Catastrophic failure	Protected by internal input and output fuses
	Approvals	2004/108/EC The general EMC directive
93/68/EEC The CE marking directive		Reg 10 The automotive directive
		93/68/EEC The CE marking directive
Markings E marked (E13 10R 046198) CE marked	Markings	E marked (E13 10R 046198) CE marked