

⚡ Body & Power Electronics

DC-DC Converter

PB-DCDC-5-S-100

Efficient and Reliable Power Conversion



Efficient, Protected & Reliable



Stable Regulated 12V Output

Provides stable 12V supply for reliable vehicle electronics and subsystem operation.



High Efficiency Power Conversion

Delivers efficient power conversion with low ripple and stable output performance.



Automotive Grade Protection Design

Includes overload, short circuit, and load dump protection for reliable operation.

AE-DC-DC Series



 **Body & Power Electronics**



High-performance DC-DC converter providing regulated 12V output for reliable vehicle electronics.

✓ **Regulated 12V Output**

✓ **High Efficiency Conversion**

✓ **Wide Input Voltage**

✓ **Integrated Protection Design**

Parameters	Specifications
Nominal Input Voltage	27V
Input Voltage Range	18 V to 36 V
Output Voltage	13 V $\pm$ 0.5 V
Output Current	10 A
Maximum Current	13 A $\pm$ 3 A
Efficiency at 27V I/P, 10A load	>88%
Protection	Overload, Short Circuit, Reverse Polarity
Rating	IP65
Compliance	EMI/EMC (TST/TS/WI/257 Cispr25 class 3)
Design	Automotive Grade Rugged Design

Parameters	Specifications
Line regulation Output Voltage	13 $\pm$ 0.5V from 18V to 36V I/P at 10A load
Load regulation output Voltage	13 $\pm$ 0.5V from 1A to 10A load
Supply current at no load	<35mA at Vin = 27V
Output Current	10 A
Insulation @ 500V	>10 Megaohm between case to grommet @ 500V
Dimension	185mm(L) X 69mm(W) X 52mm(H)
Housing	: Aluminium Pressure Dia cast cover, powder coated
Mounting	Chasis mount
Weight	Max 900g

Empowering Efficient Vehicle Power Conversion

Advanced in-house DC-DC converter development ensuring efficient, protected, and reliable vehicle power delivery.

Let's Co-Create the Future of Mobility.

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