

DC-DC Switching Regulator



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PVC2412 Series Step Down Regulators

Features

- Wide 20-30V DC Input
- 12-13.8V DC Output
- Robust Extruded Aluminium Package
- High Efficiencies up to 90%
- Non Isolated
- Ideal for Vehicle Applications



Electrical Specification

MODEL	PVC2412-6	PVC2412-10	PVC2412-20	PVC2412-30	PVC2412-40
Input Voltage	20-30VDC	20-30VDC	20-30VDC	20-30VDC	20-30VDC
Output Voltage	12V-13.8VDC	12V-13.8VDC	12V-13.8VDC	12V-13.8VDC	12V-13.8VDC
Output Current	6A/10Apk	10A/15Apk	20A/30Apk	30A/45Apk	40A/60Apk
Standby Current	≤15mA	≤20mA	≤70mA	≤90mA	≤100mA
Input Fuse	7.5A	10A	20A	30A	40A
Efficiency	85-90%	85-90%	85-90%	85-90%	85-90%
Thermal Protection	65°C±5°C	65°C±5°C	65°C±5°C	65°C±5°C	65°C±5°C
Connection Cable	1.5mm ² /900mm	2.0mm ² /900mm	2.5mm ² /900mm	4.0mm ² /900mm	6.00mm ² /900mm
Fuse Location	Internal	Internal	External	External	External
Cooling Fan	No	No	Temperature controlled	Temperature controlled	Temperature controlled
Input Reverse Polarity Protection	Diode Protection	Diode Protection	Diode Protection	Diode Protection	Diode Protection
Output Polarity Protection	Electronic	Electronic	Electronic	Electronic	Electronic
Output Short Circuit Protection	Electronic	Electronic	Electronic	Electronic	Electronic
Overload Protection	Electronic	Electronic	Electronic	Electronic	Electronic
Dimensions	88 x 87 x 42mm	126 x 87 x 42mm	182 x 115 x 62mm	192 x 115 x 62mm	192 x 115 x 62mm
Weight	0.35kg	0.45kg	0.8kg	0.9kg	0.95kg
Indicator	Green LED Power On	Green LED Power On	Green LED Power On Red LED Fault	Green LED Power On Red LED Fault	Green LED Power On Red LED Fault

EMC conforms to EN61000-6-3 & EN61000-6-1 2007.

Immunity tested to directive 72/245/EEC as last amended by directive 2006/96/EC for automotive equipment

Connections: PVC2412-6 & PVC2412-10 have fast on terminals other models have red and black screw terminals

