

FEATURES

Liquid cooled converter 360 x 310 x 205 mm INPUT: 56-100Vdc OUTPUT: 120-240Vdc

10KW

Efficiency: 84 % typ.



APPLICATIONS

DC/DC liquid cooled converter for automotive application with output current control.

INPUT

Voltage range: 56-100Vdc

Input current max.: 100A, internal power limitation

Undervoltage turn-on: 54,3V Undervoltage turn-off: 45,8V

Input protection: transient and surges protected

EMI filter

OUTPUT

Voltage: 120 to 240Vdc with external control

Current: 0 to 42A with external control

	OUTPUT		
	Тур.	Max.	Conditions
Line regulation	0,02 %	0,2 %	Low line to high line; full load
Load regulation		0,2 %	No load to full load
Ripple and noise	0,5 %	1 %	Peak to peak, nom. Input; full load
Current limit	115 % of I nominal		Vout = 95% of nominal; Automatic restart
Short circuit current	115 % of Iout nominal		Vout < 250mV; Automatic restart

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SIGNALS

Monitoring: Input voltage with 4-20mA isolated signal

Output voltage with 4-20mA isolated signal Input current with 4-20mA isolated signal Output current with 4-20mA isolated signal

Power Good: Isolated by open collector

Inhibit: Isolated, put low to inhibit

Programming: Control of the output current by an external PWM signal from 10 to 100 %

Overtemperature: Isolated by open collector

PROTECTION

Output:

Overvoltage protected: reset input voltage to restart

Overtemperature protection: 90°C typ. by thermostat; Automatic restart

ENVIRONMENTAL

Storage temperature : -40° C to $+100^{\circ}$ C

Operating temperature : -40°C to +60°C, liquid cooled

ISOLATION

Input to chassis: 1500Vdc

Output to Chassis: 1500Vdc

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