



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		Conditions
	Typ.	Max.	
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

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

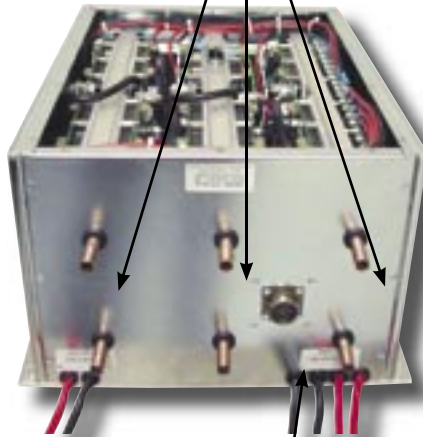
Storage temperature :	-40°C to +100°C
Operating temperature :	-40°C to +60°C, liquid cooled

ISOLATION

Input to chassis :	1500Vdc
Output to Chassis :	1500Vdc

MECHANICALS

Liquid cooled



OUTPUT

INPUT

SIGNAL : SOURIAU family 851