



**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.	
<b>Line regulation</b>	0,02 %	0,2 %	Low line to high line ; full load
<b>Load regulation</b>		0,2 %	No load to full load
<b>Ripple and noise</b>	0,5 %	1 %	Peak to peak, nom. Input ; full load
<b>Current limit</b>	115 % of I nominal		Vout = 95% of nominal ; Automatic restart
<b>Short circuit current</b>	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

<b>Output :</b>	
Overvoltage protected :	reset input voltage to restart
Overtemperature protection :	90°C typ. by thermostat ; Automatic restart

## ENVIRONMENTAL

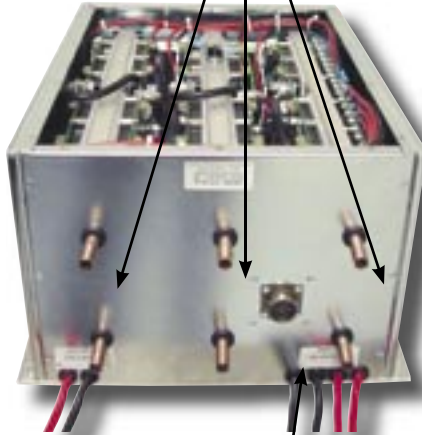
Storage temperature :	-40°C to +100°C
Operating temperature :	-40°C to +60°C, liquid cooled

## ISOLATION

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

MECHANICALS

Liquid cooled



OUTPUT

INPUT

SIGNAL : SOURIAU family 851