


REV	DESCRIPTION	DATE/APPD
A	DRAWING UNDER CHANGE CONTROL	9/17/04 GEC

## IMPACT ASSESSMENT

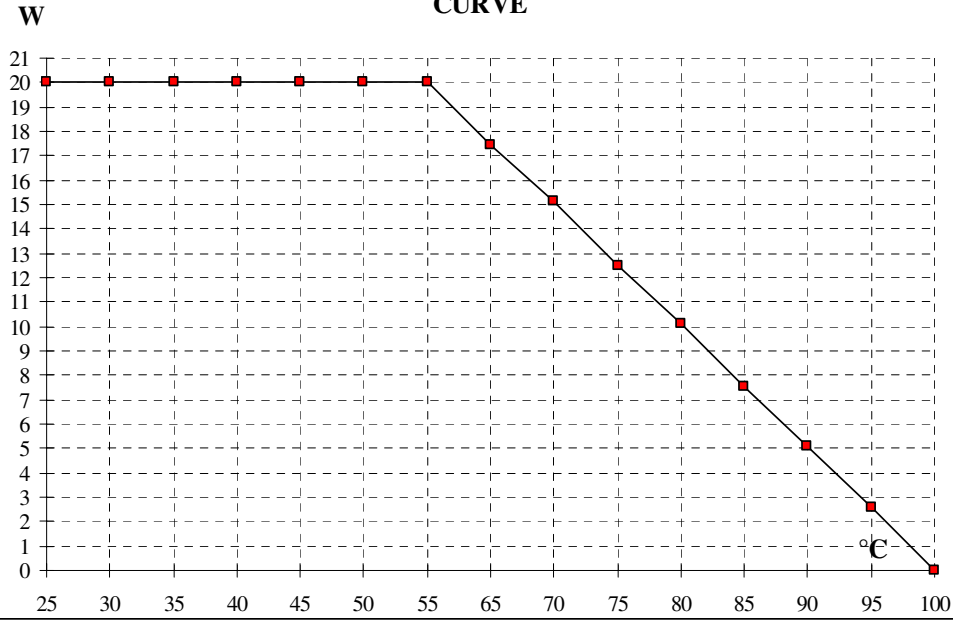
REQUIRED PRIOR TO CHANGE

DRAWN J. LEVRAULT	DATE 11/12/2002	Standard Part - THR-5/3000-15/500-D12			
CHECKED D. DEROSA	DATE 9/15/2004	Special Part - Input Over Voltage Shutdown Disabled			
MARKETING B. SMITH	DATE 9/3/2004				
QA T. BROWN	DATE 9/14/2004				
MFG. D. PAILLE	DATE 9/3/2004	<b>PRODUCT SPECIFICATION</b> <b>THR-30185</b>			
PROJ. ENG. M. ZELFAND	DATE 9/7/2004	SIZE <b>A</b>	CODE IDENT. NO. <b>50721</b>	DWG. NO. <b>43869</b>	REV <b>A</b>
APPD E. WILCOX	DATE 9/3/2004				
					SHEET 1 OF 4



<b>MODEL: THR-30185</b>	<b>DC-DC CONVERTER PRODUCT SPECIFICATIONS</b>				
9/7/2004					
<b>CURRENT LIMIT INCEPTION @5V:</b>	3.50	3.70	4.10	A	100%
At .985Vout, 24V in, ± loads @ typical currents					
<b>SHORT CIRCUIT CURRENT @5V:</b>		6		A	100%
Vo Recovery Test Only, 24 Vin					
<b>DYNAMIC LOAD RESPONSE</b>					
<b>RECOVERY TIME @5V:</b>		150	300	µSec	100%
5V load switched from 1.35A to 2.7A,±2% of Vo					
<b>GENERAL:</b>	<b>MIN.</b>	<b>TYP.</b>	<b>MAX.</b>		
<b>ISOLATION VOLTAGE:</b>	750	1000		VDC	100%
<b>ISOLATION RESISTANCE:</b>		TBD		MOHM	GBD
<b>ISOLATION CAPACITANCE:</b>		500		pF	GBD
<b>SWITCHING FREQUENCY:</b>	150	165	180	KHZ	GBD
<b>SYNC-ON/OFF CONTROL PIN:</b>	PROVIDED, FUNCTION TESTED				
<b>MEETS REQUIREMENTS OF:</b>					
<b>UL-1950</b>		YES			GBD
<b>CSA-C22.2 No234</b>		YES			GBD
<b>VDE</b>		N/A			
<b>CALCULATED MTBF:</b>		200,000		HOURS	GBD
<b>MECHANICAL:</b>	<b>MIN.</b>	<b>TYP.</b>	<b>MAX.</b>		
<b>DIMENSIONS(NOMINAL):</b>		2" x 2" x .45"		INCHES	GBD
<b>WEIGHT (NOMINAL):</b>		2		OUNCES	GBD
		56		GRAM	
<b>CASE MATERIAL:</b>	BAKED ENAMEL STEEL, NON CONDUCTIVE BASE				GBD
<b>EMI/RFI SHIELDING:</b>	FIVE SIDED				GBD
<b>ENVIRONMENTAL:</b>	<b>MIN.</b>	<b>TYP.</b>	<b>MAX.</b>		
<b>OPERATING AMBIENT TEMPERATURE Ta</b>					
<b>WHERE NO DERATING REQUIRED:</b>	-25		55	°C	GBD
Natural Convection,Vertical mount.					
<b>STORAGE TEMPERATURE</b>	-55		125	°C	GBD
<b>DERATING</b>	AS PER DERATING CURVE				GBD
	<b>DWG. No.</b>	<b>43869</b>	<b>REV.</b>	<b>A</b>	<b>SHT 3 of 4</b>

### THR-30185 OUTPUT POWER TEMPERATURE DERATING CURVE



### THR-30185 Efficiency Vrs. Vin

