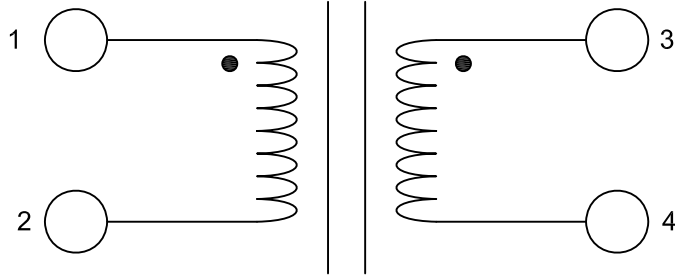


FULL BRIDGE TRANSFORMER SCHEMATIC



ELECTRICAL SPECIFICATION

VIN = 1000 VDC **VOUT = 200 VDC**
FREQUENCY = 40 KHz **IOUT = 100 AMPS**
MAXIMUM DUTY CYCLE = 0.80 **FLUX DENSITY = 200 mT**

INDUCTANCE(mH)		
PINS	MIN	MAX
1 - 2	135	180
3 - 4	8.5	11.3

DC RESISTANCE (OHMS)		
PINS		TYPICAL
1 - 2		0.016
3 - 4		0.002

HI POT		
VOLTAGE	FROM PINS	TO PINS
20 KV	1 - 2	3 - 4
20 KV	ALL PINS	CORE

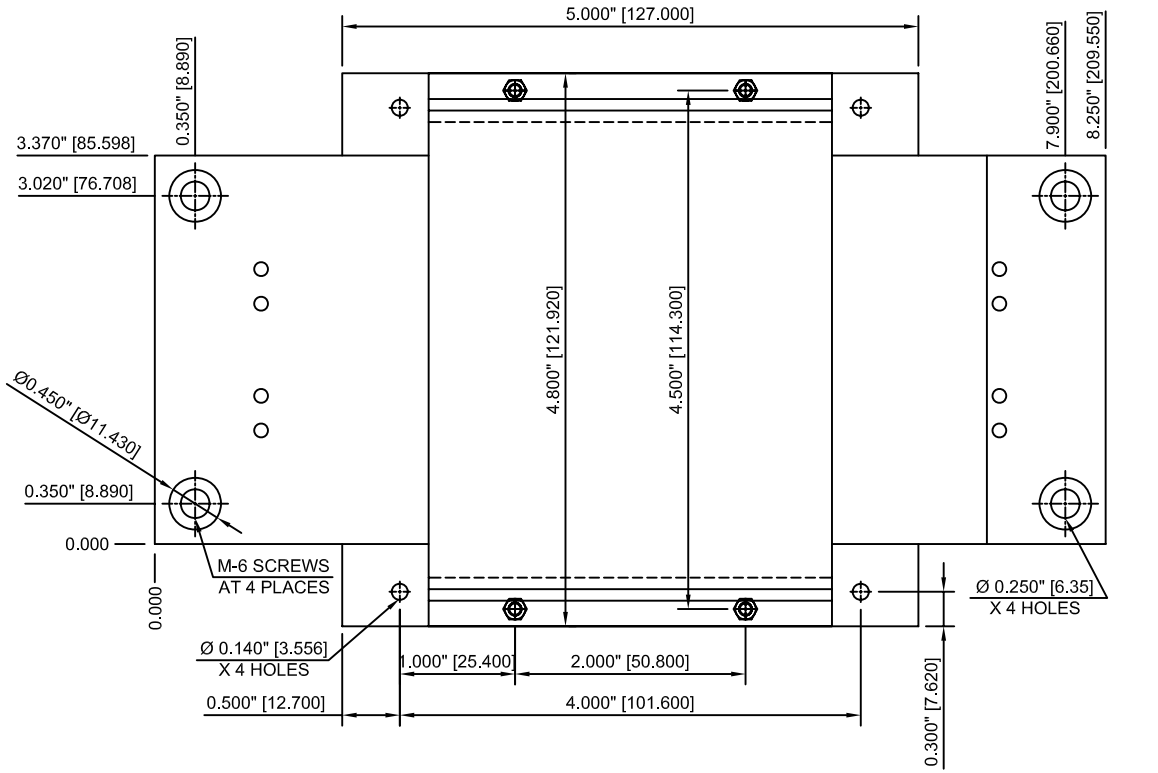
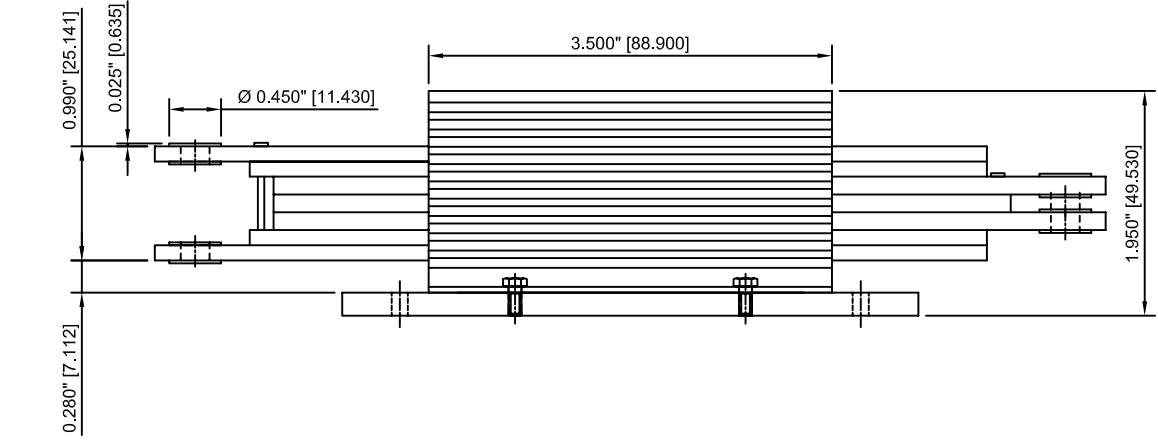
LEAKAGE INDUCTANCE (uH)		
PINS	SHORTED	MAX
1 - 2	3-4	15 uH

TRANSFORMER TURNS	
PINS	TURNS
1 - 2	96 TURNS
3 - 4	24 TURNS

TRANSFORMER POWER LOSSES	
PRIMARY WINDING	13.068 WATTS
SECONDARY WINDING	12.8 WATTS
TRANSFORMER CORE	18.3 WATTS
TOTAL	44.3. WATTS
EFFICIENCY	99.7 %

TEMPERATURE RISE	
	Temp
PRIMARY	8° C
SECONDARY	11.2° C

FULL WAVE OR HALF WAVE RECTIFICATION



OUTPUT POWER: 20 kW
OUTPUT POWER RANGE: 15 KW - 50 KW