



PRODUCT SPECIFICATION  
AVIONIC INSTRUMENTS LLC  
270VDC Transformer Rectifier Unit  
270VDC-100A-27KW TRU  
Model No. TRU27000-270VDC-2542

<u>INPUT VOLTAGE</u>	187VAC to 204VAC L-L three phase, four wire WYE, normal. Abnormal range as per Mil-Std-704E.	
<u>INPUT CURRENT</u>	130A per phase, maximum, for stated input range, full load.	
<u>INPUT FREQUENCY</u>	380Hz to 420Hz, normal. Abnormal range as per Mil-Std-704E.	
<u>INPUT POWER FACTOR</u>	0.95, minimum at full load.	
<u>OUTPUT VOLTAGE</u>	250 to 280 VDC for stated input range, no load thru full load.	
<u>OUTPUT CURRENT</u>	100A, continuous.	
<u>OUTPUT RIPPLE</u>	6.0 V P-P, Maximum.	
<u>EFFICIENCY</u>	95%, maximum at full load for stated input range.	
<u>OVERLOAD</u>	200A for 5 minutes	
<u>SHORT CIRCUIT</u>	300% rated current for 5 seconds, minimum.	
<u>ISOLATION VOLTAGE</u>	1000VDC	Input to Output
	1000VDC	Input to Case
	250VDC	Output to Case
<u>INSULATION RESISTANCE</u>	50 mega-ohms min	
<u>MECHANICAL</u>	11" x 17" footprint, 7." high, 45 lbs., maximum.	
<u>MTBF</u>	In excess of 150,000 hours, calculated per Mil-Hdbk-217F, AIC, 40° C.	
<u>TEMPERATURE RATING</u>	-55 to +70 Degrees Celsius	
<u>ALTITUDE RATING</u>	25KFT at 100A and 45KFT at 60A Rating	
<u>COOLING</u>	Fan cooled design.	