



## Highly Acceleration Life Test Report

### Test Result Summary:

Test Item	Summary		Remark
Low Temperature Step Stress Test	Low line I/P Voltage	Lower Destruct Limit: N/A Lower Operating Limit: N/A	
	<b>Failure symptom:</b> N/A <b>Failure analysis:</b> N/A <b>Conclusion:</b> PSU operated normally until temperature was decreased to 100°C. HALT equipment capability limit is reached. (-100°C).		
	High line I/P Voltage	Lower Destruct Limit: N/A Lower Operating Limit: N/A	
	<b>Failure symptom:</b> N/A <b>Failure analysis:</b> N/A <b>Conclusion:</b> PSU operated normally until temperature was decreased to 100°C. HALT equipment capability limit is reached. (-100°C).		
High Temperature Step Stress Test (Thermal protection circuit disable)	Low line I/P Voltage	Upper Destruct Limit: N/A Upper Operating Limit: 110 °C	
	<b>Failure symptom:</b> Micro inverter shut down when ambient temperature was increased to 110°C.. <b>Failure analysis:</b> N/A <b>Conclusion:</b> Component protected itself.		
	High line I/P Voltage	Upper Destruct Limit: N/A Upper Operating Limit: 110°C	
	<b>Failure symptom:</b> Micro inverter shut down when ambient temperature was increased to 110°C.. <b>Failure analysis:</b> N/A <b>Conclusion:</b> Component protected itself.		



<b>Vibration Step Stress Test</b>	Low line	Vibration Operating Limit: N/A	
	I/P Voltage	Vibration Destruct Limit: N/A	
	<b>Failure symptom:</b> N/A <b>Failure analysis:</b> N/A <b>Conclusion:</b> HALT equipment capability limit is reached.( 50Grms)		
	High line	Vibration Operating Limit: N/A	
	I/P Voltage	Vibration Destruct Limit: N/A	
	<b>Failure symptom:</b> 50Grms. <b>Failure analysis:</b> N/A <b>Conclusion:</b> The C201 leg has been broken when vibration was increased to 50Grms.		
<b>Combined Environment Stress Screen</b>	Executing 5 cycles	The Micro inverter do not have any failure after test.	
	<b>Failure symptom:</b> N/A <b>Failure analysis:</b> N/A <b>Conclusion:</b> The Micro inverter do not have any failure (function failure or solder crack) after complete combined stress test.		

**Note: The vibration acceleration capability of HALT equipment is 50Grms.**