

Required Ruggedness Test for LED Drivers

Sr. No.	Test	Test Condition	Instrument
1	8 Hrs Continuous Run Test at full Load	At Nominal Voltage	PRPT-16
2	8 Hrs Continuous Run Test at full Load	At minimum Operating Voltage	PRPT-16
3	8 Hrs Continuous Run Test at Full Load	At Maximum Operating Voltage	PRPT-16
4	ON/OFF Test 1Hrs at Minimum Operating Voltage	10 Sec ON and 5 Sec OFF	PRPT-16
5	ON/OFF Test 2Hrs at Nominal Voltage	10 Sec ON and 5 Sec OFF	PRPT-16
6	ON/OFF Test 1Hrs at Maximum Operating Voltage	10 Sec ON and 5 Sec OFF	PRPT-16
7	High Voltage Run Test @320Vac	30 MIN	PRPT-16
8	High Voltage Run Test @350Vac	30MIN	PRPT-16
9	High Voltage Run Test @370Vac	30MIN	PRPT-16
10	High Voltage Run Test @400Vac	10MIN	PRPT-16
11	High Voltage Run Test @430Vac	5MIN	PRPT-16
12	High Voltage Run Test @440Vac	4MIN	PRPT-16
13	High Voltage ON/OFF Test @320Vac	50 Times	PRPT-16
14	High Voltage ON/OFF Test @350Vac	50 Times	PRPT-16
15	High Voltage ON/OFF Test @370Vac	20 Times	PRPT-16
16	High Voltage ON/OFF Test @400Vac	20 Times	PRPT-16
17	High Voltage ON/OFF Test @430Vac	10 Times	PRPT-16
18	High Voltage ON/OFF Test @440Vac	5 Times	PRPT-16
19	Square Wave Inverter Run Test	1Hrs	Other
20	Square Wave Inverter ON/OFF Test	10 Times	Other
21	Single Phase Generator Run Test	1Hrs	Other
22	Single Phase Generator ON/OFF Test	10 Times	Other
23	Oven Test @Nominal Voltage	2Hrs	Other
24	Oven Test @Minimum Operating Voltage	1Hrs	Other
25	Oven Test @Maximum Operating Voltage	1Hrs	Other
26	Confirmation of Start-up Voltage	50 Times	Other
27	Check Under Voltage Cut Off	50 Times	Other
28	Check Under Voltage Cut-IN	50 Times	Other
29	Check Over Voltage Cut-OFF	50 Times	Other
30	Check Over Voltage Cut-IN	50 Times	Other
31	Voltage Dips and Interruption Test (IEC-61547/61000-4-5)		PRPT-16

Note: PRPT-16 can be used to perform most of the above specified tests. Some tests can be done using others or through Variac Manually.

These tests are required by most of the companies for R&D and Quality Testing.