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**REPORT NO.: EM-SC140002 (C1M1402207)**

**DATE: 2014. 02. 26**

1. APPLICANT : OrangeTek Limited  
 Coach House Blakenhall Park Bar Lane,  
 Barton under Needwood, Burton upon Trent,  
 DE13 8AJ, United Kingdom.
2. MANUFACTURER : OrangeTek Limited  
 Coach House Blakenhall Park Bar Lane,  
 Barton under Needwood, Burton upon Trent,  
 DE13 8AJ, United Kingdom.
3. PREPARED BY : AUDIX Technology Corporation.  
 EMC Department  
 No. 53-11, Dingfu, Linkou Dist.,  
 New Taipei City 244, Taiwan  
 Tel: (02) 2609-9301~2; Fax: (02) 2609-9303
4. DESCRIPTION OF DEVICE : TERRALED MINI 24  
 A) MODEL NO. : SL-24NIT5P3G1  
 B) SERIAL NO. : N/A  
 C) TEST UNIT : Sample 1, Sample 2, Sample 3, Sample 4, Sample 5  
 D) TEST VOLTAGE : AC 210V/50Hz, AC 220V/50Hz, AC 230V/50Hz,  
 AC 240V/50Hz, AC 250V/50Hz
5. DATE OF MEASUREMENT : 2014. 02. 25
6. PLACE OF MEASUREMENT : **AUDIX Technology Corporation**  
**EMC Department**  
 Immunity Test Site  
 No. 53-11, Dingfu, Linkou Dist.,  
 New Taipei City 244, Taiwan
- SIGNATURE :   
 Alex Deng/Deputy Manager  
 AUDIX Technology Corporation  
 EMC Department  
 2014. 02. 26

Sample 1 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	24.472	0.12216	0.9525
220	50	24.487	0.11751	0.9456
230	50	24.509	0.11341	0.9381
240	50	24.532	0.10979	0.9296
250	50	24.567	0.10642	0.9218

Sample 2 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	24.419	0.12172	0.9539
220	50	24.430	0.11705	0.9471
230	50	24.451	0.11294	0.9398
240	50	24.480	0.10930	0.9317
250	50	24.514	0.10599	0.9236

Sample 3 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	24.717	0.12338	0.9526
220	50	24.728	0.11868	0.9455
230	50	24.746	0.11451	0.9381
240	50	24.774	0.11093	0.9291
250	50	24.803	0.10747	0.9216

Sample 4 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	24.610	0.12290	0.9522
220	50	24.624	0.11820	0.9454
230	50	24.649	0.11416	0.9373
240	50	24.677	0.11043	0.9297
250	50	24.714	0.10729	0.9198

Sample 5 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	24.424	0.12197	0.9522
220	50	24.436	0.11731	0.9453
230	50	24.457	0.11324	0.9375
240	50	24.480	0.10961	0.9291
250	50	24.516	0.10631	0.9209

**Watts**

Voltage \ Sample	1	2	3	4	5
210	24.472	24.419	24.717	24.610	24.424
220	24.487	24.430	24.728	24.624	24.436
230	24.509	24.451	24.746	24.649	24.457
240	24.532	24.480	24.774	24.677	24.480
250	24.567	24.514	24.803	24.714	24.516

**VA**

Voltage \ Sample	1	2	3	4	5
210	25.653600	25.561200	25.909800	25.809000	25.613700
220	25.852200	25.751000	26.109600	26.004000	25.808200
230	26.084300	25.976200	26.337300	26.256800	26.045200
240	26.349600	26.232000	26.623200	26.503200	26.306400
250	26.605000	26.497500	26.867500	26.822500	26.577500

**Notes: Test be conducted after operating for 1 hour to reach their steady load state.**

Sample 1 Dimmed to 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	16.924	0.087452	0.9202
220	50	16.956	0.084662	0.9088
230	50	16.992	0.082252	0.8967
240	50	17.034	0.080084	0.8849
250	50	17.088	0.078415	0.8701

Sample 2 Dimmed to 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	17.024	0.087660	0.9234
220	50	17.051	0.084810	0.9123
230	50	17.095	0.082321	0.9014
240	50	17.136	0.080152	0.8894
250	50	17.189	0.078469	0.8747

Sample 3 Dimmed to 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	17.160	0.088676	0.9202
220	50	17.194	0.085849	0.9088
230	50	17.234	0.083431	0.8966
240	50	17.278	0.081195	0.8853
250	50	17.327	0.079577	0.8695

Sample 4 Dimmed to 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	17.096	0.088397	0.9196
220	50	17.135	0.085630	0.9080
230	50	17.177	0.083129	0.8969
240	50	17.222	0.081131	0.8831
250	50	17.276	0.079334	0.8695

Sample 5 Dimmed to 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	17.011	0.087866	0.9205
220	50	17.041	0.085050	0.9092
230	50	17.080	0.082622	0.8973
240	50	17.121	0.080455	0.8853
250	50	17.175	0.078781	0.8705

**Watts**

Voltage \ Sample	1	2	3	4	5
210	16.924	17.024	17.160	17.096	17.011
220	16.956	17.051	17.194	17.135	17.041
230	16.992	17.095	17.234	17.177	17.080
240	17.034	17.136	17.278	17.222	17.121
250	17.088	17.189	17.327	17.276	17.175

**VA**

Voltage \ Sample	1	2	3	4	5
210	18.364920	18.408600	18.621960	18.563370	18.451860
220	18.625640	18.658200	18.886780	18.838600	18.711000
230	18.917960	18.933830	19.189130	19.119670	19.003060
240	19.220160	19.236480	19.486800	19.471440	19.309200
250	19.603750	19.617250	19.894250	19.833500	19.695250

**Notes: Test be conducted after operating for 1 hour to reach their steady load state.**

Sample 1 Dimmed to 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	12.403	0.067331	0.8759
220	50	12.440	0.065671	0.8596
230	50	12.488	0.064247	0.8437
240	50	12.540	0.063105	0.8267
250	50	12.602	0.062287	0.8079

Sample 2 Dimmed to 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	12.358	0.066830	0.8793
220	50	12.396	0.065183	0.8630
230	50	12.445	0.063685	0.8482
240	50	12.497	0.062553	0.8311
250	50	12.561	0.061643	0.8137

Sample 3 Dimmed to 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	12.474	0.067826	0.8745
220	50	12.498	0.066112	0.8578
230	50	12.545	0.064659	0.8422
240	50	12.598	0.063579	0.8243
250	50	12.664	0.062679	0.8068

Sample 4 Dimmed to 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	12.408	0.067625	0.8724
220	50	12.450	0.065995	0.8560
230	50	12.499	0.064539	0.8406
240	50	12.554	0.063482	0.8227
250	50	12.617	0.062409	0.8072

Sample 5 Dimmed to 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	12.309	0.066965	0.8740
220	50	12.352	0.065337	0.8579
230	50	12.402	0.063924	0.8422
240	50	12.459	0.062855	0.8246
250	50	12.522	0.061958	0.8070

**Watts**

Voltage \ Sample	1	2	3	4	5
210	12.403	12.358	12.474	12.408	12.309
220	12.440	12.396	12.498	12.450	12.352
230	12.488	12.445	12.545	12.499	12.402
240	12.540	12.497	12.598	12.554	12.459
250	12.602	12.561	12.664	12.617	12.522

**VA**

Voltage \ Sample	1	2	3	4	5
210	14.139510	14.034300	14.243460	14.201250	14.062650
220	14.447620	14.340260	14.544640	14.518900	14.374140
230	14.776810	14.647550	14.871570	14.843970	14.702520
240	15.145200	15.012720	15.258960	15.235680	15.085200
250	15.571750	15.410750	15.669750	15.602250	15.489500

**Notes: Test be conducted after operating for 1 hour to reach their steady load state.**

## Photograph of Sample

Photo 1 View of EUT



Photo 2 View of EUT

