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REPORT NO.: EM-SC140006 (C1M1402211)

DATE: 2014. 02. 27.

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 30 (22W)
 A) MODEL NO. : SL-22N1T5P2G4
 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. 26.
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. 27.

Sample 1 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	21.279	0.10251	0.9869
220	50	21.263	0.09800	0.9844
230	50	21.251	0.09393	0.982
240	50	21.241	0.09025	0.979
250	50	21.232	0.08684	0.9761

Sample 2 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	21.123	0.10175	0.9869
220	50	21.107	0.09726	0.9846
230	50	21.096	0.09323	0.9821
240	50	21.087	0.08957	0.9793
250	50	21.083	0.08622	0.9763

Sample 3 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	20.995	0.10114	0.9869
220	50	20.979	0.09668	0.9845
230	50	20.968	0.09268	0.9819
240	50	20.961	0.08906	0.979
250	50	20.957	0.08574	0.9758

Sample 4 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	21.088	0.10155	0.9873
220	50	21.071	0.09705	0.985
230	50	21.062	0.09304	0.9825
240	50	21.053	0.08940	0.9796
250	50	21.051	0.08605	0.9767

Sample 5 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	21.025	0.10130	0.9868
220	50	21.01	0.09683	0.9845
230	50	20.999	0.09282	0.9818
240	50	20.995	0.08922	0.9789
250	50	20.988	0.08588	0.9757

Watts

Voltage \ Sample	1	2	3	4	5
210	21.279	21.123	20.995	21.088	21.025
220	21.263	21.107	20.979	21.071	21.01
230	21.251	21.096	20.968	21.062	20.999
240	21.241	21.087	20.961	21.053	20.995
250	21.232	21.083	20.957	21.051	20.988

VA

Voltage \ Sample	1	2	3	4	5
210	21.527100	21.367500	21.239400	21.239400	21.273000
220	21.560000	21.397200	21.269600	21.269600	21.302600
230	21.603900	21.442900	21.316400	21.316400	21.348600
240	21.660000	21.496800	21.374400	21.374400	21.412800
250	21.710000	21.555000	21.435000	21.435000	21.470000

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	15.208	0.07406	0.9762
220	50	15.217	0.07098	0.9727
230	50	15.221	0.06821	0.9684
240	50	15.227	0.06572	0.9637
250	50	15.232	0.06345	0.9584

Sample 2 Dimmed to 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	15.118	0.07358	0.9767
220	50	15.128	0.07057	0.9726
230	50	15.134	0.06780	0.9688
240	50	15.138	0.06532	0.9639
250	50	15.146	0.06306	0.9588

Sample 3 Dimmed to 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	15.009	0.07306	0.9765
220	50	15.017	0.07007	0.9723
230	50	15.026	0.06736	0.9681
240	50	15.029	0.06490	0.9632
250	50	15.037	0.06267	0.958

Sample 4 Dimmed to 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	15.08	0.07338	0.977
220	50	15.087	0.07033	0.9732
230	50	15.092	0.06750	0.969
240	50	15.102	0.06512	0.9646
250	50	15.108	0.06286	0.9595

Sample 5 Dimmed to 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	15.05	0.07330	0.9761
220	50	15.056	0.07024	0.9725
230	50	15.061	0.06752	0.9681
240	50	15.072	0.06502	0.9632
250	50	15.082	0.06285	0.9581

Watts

Voltage \ Sample	1	2	3	4	5
210	15.208	15.118	15.009	15.08	15.05
220	15.217	15.128	15.017	15.087	15.056
230	15.221	15.134	15.026	15.092	15.061
240	15.227	15.138	15.029	15.102	15.072
250	15.232	15.146	15.037	15.108	15.082

VA

Voltage \ Sample	1	2	3	4	5
210	15.552600	15.451800	15.342600	15.409800	15.393000
220	15.615600	15.525400	15.415400	15.472600	15.452800
230	15.688300	15.594000	15.492800	15.525000	15.529600
240	15.772800	15.676800	15.576000	15.628800	15.604800
250	15.862500	15.765000	15.667500	15.715000	15.712500

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	11.352	0.05607	0.9624
220	50	11.373	0.05396	0.9561
230	50	11.384	0.05204	0.9493
240	50	11.401	0.05030	0.9427
250	50	11.415	0.04874	0.935

Sample 2 Dimmed to 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	11.313	0.05587	0.9625
220	50	11.33	0.05373	0.9566
230	50	11.344	0.05184	0.9497
240	50	11.36	0.05008	0.9434
250	50	11.375	0.04853	0.9357

Sample 3 Dimmed to 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	11.215	0.05544	0.9617
220	50	11.235	0.05333	0.9557
230	50	11.25	0.05149	0.9482
240	50	11.268	0.04976	0.9419
250	50	11.282	0.04821	0.9341

Sample 4 Dimmed to 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	11.273	0.05564	0.9631
220	50	11.288	0.05351	0.9571
230	50	11.298	0.05161	0.9500
240	50	11.315	0.04986	0.9438
250	50	11.329	0.04830	0.9363

Sample 5 Dimmed to 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	11.253	0.05561	0.9618
220	50	11.27	0.05350	0.9557
230	50	11.286	0.05163	0.9486
240	50	11.298	0.04987	0.9422
250	50	11.316	0.04834	0.9345

Watts

Voltage \ Sample	1	2	3	4	5
210	11.352	11.313	11.215	11.273	11.253
220	11.373	11.33	11.235	11.288	11.27
230	11.384	11.344	11.25	11.298	11.286
240	11.401	11.36	11.268	11.315	11.298
250	11.415	11.375	11.282	11.329	11.316

VA

Voltage \ Sample	1	2	3	4	5
210	11.774700	11.732700	11.684400	11.684400	11.678100
220	11.871200	11.820600	11.772200	11.772200	11.770000
230	11.969200	11.923200	11.870300	11.870300	11.874900
240	12.072000	12.019200	11.966400	11.966400	11.968800
250	12.185000	12.132500	12.075000	12.075000	12.085000

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

