

Appendix for LTE Band 12

Product Name: EcoFlow 4G Dongle SEP
Model No: EF-WM-001

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.27	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.14	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.15	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	23.14	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	23.15	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	23.05	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.17	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.26	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.13	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.22	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	22.08	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	22.24	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	22.03	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.16	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.83	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.84	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.81	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	23.90	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	23.86	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	23.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.94	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.98	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	23.29	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.79	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	22.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	22.88	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	22.62	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.94	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.93	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	24.03	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.71	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	24.05	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	23.96	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	23.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.88	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.98	PASS

Band12	1.4MHz	16QAM	23173	1RB#2	22.87	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.83	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	22.84	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	22.89	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	22.73	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.85	PASS
Band12	3MHz	QPSK	23025	1RB#0	22.96	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.11	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.00	PASS
Band12	3MHz	QPSK	23025	8RB#0	22.05	PASS
Band12	3MHz	QPSK	23025	8RB#4	22.10	PASS
Band12	3MHz	QPSK	23025	8RB#7	22.07	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.06	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.06	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.06	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.16	PASS
Band12	3MHz	16QAM	23025	8RB#0	21.22	PASS
Band12	3MHz	16QAM	23025	8RB#4	21.08	PASS
Band12	3MHz	16QAM	23025	8RB#7	21.23	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.16	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.70	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.86	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.64	PASS
Band12	3MHz	QPSK	23095	8RB#0	22.98	PASS
Band12	3MHz	QPSK	23095	8RB#4	23.10	PASS
Band12	3MHz	QPSK	23095	8RB#7	23.00	PASS
Band12	3MHz	QPSK	23095	15RB#0	23.02	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.71	PASS
Band12	3MHz	16QAM	23095	1RB#8	23.27	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.78	PASS
Band12	3MHz	16QAM	23095	8RB#0	22.05	PASS
Band12	3MHz	16QAM	23095	8RB#4	22.04	PASS
Band12	3MHz	16QAM	23095	8RB#7	22.02	PASS
Band12	3MHz	16QAM	23095	15RB#0	22.09	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.44	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.95	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.56	PASS
Band12	3MHz	QPSK	23165	8RB#0	22.75	PASS
Band12	3MHz	QPSK	23165	8RB#4	22.89	PASS
Band12	3MHz	QPSK	23165	8RB#7	22.81	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.76	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.42	PASS

Band12	3MHz	16QAM	23165	1RB#8	22.70	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.51	PASS
Band12	3MHz	16QAM	23165	8RB#0	21.74	PASS
Band12	3MHz	16QAM	23165	8RB#4	21.84	PASS
Band12	3MHz	16QAM	23165	8RB#7	21.85	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.85	PASS
Band12	5MHz	QPSK	23035	1RB#0	22.87	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.14	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.02	PASS
Band12	5MHz	QPSK	23035	12RB#0	22.24	PASS
Band12	5MHz	QPSK	23035	12RB#6	22.40	PASS
Band12	5MHz	QPSK	23035	12RB#13	22.38	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.35	PASS
Band12	5MHz	16QAM	23035	1RB#0	21.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.12	PASS
Band12	5MHz	16QAM	23035	1RB#24	21.96	PASS
Band12	5MHz	16QAM	23035	12RB#0	21.29	PASS
Band12	5MHz	16QAM	23035	12RB#6	21.36	PASS
Band12	5MHz	16QAM	23035	12RB#13	21.46	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.31	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.08	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.89	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.31	PASS
Band12	5MHz	QPSK	23095	12RB#0	22.74	PASS
Band12	5MHz	QPSK	23095	12RB#6	22.94	PASS
Band12	5MHz	QPSK	23095	12RB#13	22.81	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.75	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.43	PASS
Band12	5MHz	16QAM	23095	1RB#12	23.18	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.67	PASS
Band12	5MHz	16QAM	23095	12RB#0	21.79	PASS
Band12	5MHz	16QAM	23095	12RB#6	21.99	PASS
Band12	5MHz	16QAM	23095	12RB#13	21.89	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.78	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.32	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.89	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.51	PASS
Band12	5MHz	QPSK	23155	12RB#0	22.56	PASS
Band12	5MHz	QPSK	23155	12RB#6	22.95	PASS
Band12	5MHz	QPSK	23155	12RB#13	22.99	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.84	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.34	PASS

Band12	5MHz	16QAM	23155	1RB#12	22.72	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.47	PASS
Band12	5MHz	16QAM	23155	12RB#0	21.71	PASS
Band12	5MHz	16QAM	23155	12RB#6	21.87	PASS
Band12	5MHz	16QAM	23155	12RB#13	22.01	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.85	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.02	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.55	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.75	PASS
Band12	10MHz	QPSK	23060	25RB#0	22.44	PASS
Band12	10MHz	QPSK	23060	25RB#12	22.71	PASS
Band12	10MHz	QPSK	23060	25RB#25	22.95	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.75	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.24	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.53	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.95	PASS
Band12	10MHz	16QAM	23060	25RB#0	21.57	PASS
Band12	10MHz	16QAM	23060	25RB#12	21.80	PASS
Band12	10MHz	16QAM	23060	25RB#25	22.01	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.86	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.83	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.26	PASS
Band12	10MHz	QPSK	23095	25RB#0	22.55	PASS
Band12	10MHz	QPSK	23095	25RB#12	22.92	PASS
Band12	10MHz	QPSK	23095	25RB#25	22.82	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.73	PASS
Band12	10MHz	16QAM	23095	1RB#0	21.89	PASS
Band12	10MHz	16QAM	23095	1RB#24	23.33	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.24	PASS
Band12	10MHz	16QAM	23095	25RB#0	21.57	PASS
Band12	10MHz	16QAM	23095	25RB#12	21.97	PASS
Band12	10MHz	16QAM	23095	25RB#25	21.83	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.60	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.90	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.66	PASS
Band12	10MHz	QPSK	23130	25RB#0	23.07	PASS
Band12	10MHz	QPSK	23130	25RB#12	22.91	PASS
Band12	10MHz	QPSK	23130	25RB#25	23.06	PASS
Band12	10MHz	QPSK	23130	50RB#0	23.05	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.65	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.71	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.84	PASS

Band12	10MHz	16QAM	23130	25RB#0	22.19	PASS
Band12	10MHz	16QAM	23130	25RB#12	22.04	PASS
Band12	10MHz	16QAM	23130	25RB#25	22.12	PASS

Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	5.39	13	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	5.65	13	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	5.97	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	6.55	13	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	4.49	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	5.16	13	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	5.36	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	6.00	13	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	4.38	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	4.93	13	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	5.10	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	5.86	13	PASS
Band12	3MHz	QPSK	23025	1RB#0	5.54	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	5.68	13	PASS
Band12	3MHz	16QAM	23025	1RB#0	6.26	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	6.38	13	PASS
Band12	3MHz	QPSK	23095	1RB#0	4.67	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.25	13	PASS
Band12	3MHz	16QAM	23095	1RB#0	5.33	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	6.06	13	PASS
Band12	3MHz	QPSK	23165	1RB#0	5.04	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	5.22	13	PASS
Band12	3MHz	16QAM	23165	1RB#0	6.00	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	6.03	13	PASS
Band12	5MHz	QPSK	23035	1RB#0	5.36	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	5.68	13	PASS
Band12	5MHz	16QAM	23035	1RB#0	6.09	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	6.32	13	PASS
Band12	5MHz	QPSK	23095	1RB#0	4.93	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.28	13	PASS
Band12	5MHz	16QAM	23095	1RB#0	5.71	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	5.94	13	PASS
Band12	5MHz	QPSK	23155	1RB#0	5.22	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	5.45	13	PASS
Band12	5MHz	16QAM	23155	1RB#0	6.41	13	PASS
Band12	5MHz	16QAM	23155	25RB#0	6.20	13	PASS
Band12	10MHz	QPSK	23060	1RB#0	5.45	13	PASS

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Band12	10MHz	QPSK	23060	50RB#0	5.36	13	PASS
Band12	10MHz	16QAM	23060	1RB#0	6.29	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	5.36	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.22	13	PASS
Band12	10MHz	16QAM	23095	1RB#0	5.88	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	4.58	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.54	13	PASS
Band12	10MHz	16QAM	23130	1RB#0	5.51	13	PASS

Test Graphs



