

Certificate of Conformity

No. ESY 075386 0223 Rev. 00

Holder of Certificate: **Shenzhen Kstar New Energy Company Limited**
The 9th Floor, R&D Building
Kstar Industrial Park, Guangming Hi-tech Industrial Zone
518107 Shenzhen, Guangdong Province
PEOPLE'S REPUBLIC OF CHINA

Product: **Converter
(Hybrid Inverter)**

Model(s): **KAC50DP**

Parameters: See page 2

Applicable standards: VDE-AR-N 4105:2018
DIN VDE V 0124-100 (VDE V 0124-100):2020

This Certificate of Conformity confirms the compliance with the above listed standards on a voluntary basis. It refers only to the sample submitted to TÜV SÜD Product Service GmbH and does not certify the quality or safety of the serial products. It was issued according to TÜV SÜD Product Service certification program Photovoltaics and Grid Integration. For details see: www.tuvsud.com/ps-cert

Test report no.: 64290223105401

Date, 2023-08-02



(Billy Qiu)

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Parameters:

Model:	KAC50DP
PV input parameter	
Maximum input voltage	1000 Vd.c.
MPPT voltage range	350~800 Vd.c.
MPPT voltage range (full load)	667~750 Vd.c.
Maximum continuous input current	108 Ad.c. (36Ad.c. per PV string)
Maximum PV short circuit current	120 Ad.c. (40Ad.c. per PV string)
Maximum input power	75 kW
Battery input/output parameter	
Battery type	Lithium-ion
Input voltage range	350~750 Vd.c.
Rated voltage	512 Vd.c.
Maximum input/output voltage	750 Vd.c.
Maximum charging current	2*55 Ad.c.
Maximum charging power	55000 W
Maximum discharging current	2*55 Ad.c.
Maximum discharging power	55000 W
Grid parameter	
Rated input/output voltage	230/400 Va.c., 3/N/PE
Rated input/output frequency	50 Hz
Maximum input current	80 Aa.c.
Maximum input active power	50000 W
Maximum input apparent power	55000 VA
Rated output current	72 Aa.c.
Maximum continuous output current	80 Aa.c.
Rated output active power	50000 W
Maximum output active power	50000 W
Maximum output apparent power	55000 VA
Maximum active power $P_{E_{max}}$	50764 W
Maximum active power $S_{E_{max}}$	55974 VA
Power factor	0.9 inductive(under-excited) to 0.9 capacitive(over-excited)

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E.4 Unit certificate

Unit certificate		
Manufacturer	Shenzhen Kstar New Energy Company Limited	
Power generation unit type	Hybrid Inverter: KAC50DP	
Assessment values	max. active power $P_{E_{max}}$	50764 W
	max. apparent power $S_{E_{max}}$	55974 VA
	Rated voltage	3/N/PE~, 230/400 Va.c.
	Rated current (AC) I_r	72 Aa.c.
	Initial short-circuit AC current I''_k	120 Ad.c.
Network connection rule	VDE-AR-N 4105 “Generators connected to the low-voltage distribution network” Technical minimum requirements for connection and parallel operation of power generation systems connected to the low-voltage network	
Test requirement	DIN VDE V 0124-100 (VDE V 0124-100) “Network integration of power generation systems – Low voltage” Test requirements for power generation units intended for connection to and parallel operation on the low-voltage network	
Test report	64.290.22.31054.01 from 2023-07-18	
The above designated power generation unit meets the requirements of VDE-AR-N 4105		

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E.5 Test report "Network interactions" for power generation units with an input current > 75 A

Extract of the test report for power generation units "Determination of electrical properties"	
System manufacturer:	Shenzhen Kstar New Energy Company Limited The 9th Floor, R&D Building, Kstar Industrial Park, Guangming Hi-tech Industrial Zone, Shenzhen, Guangdong Province, PEOPLE'S REPUBLIC OF CHINA
Manufacturer indications:	Type of system: Hybrid inverter for PV and battery system
	Max. active power $P_{E_{max}}$: 50764 W
	Rated voltage: 3/N/PE~, 230/400 Va.c.
Measurement period:	From 2022-12-30 to 2023-07-17

Rapid voltage change	
Model	KAC50DP
Connection without provisions (regarding the primary energy carrier)	$K_i=0.534$
Most adverse case when switching between generator levels	$K_i=0.537$
Connection at nominal conditions (of the primary energy carrier)	$K_i=1.093$
Disconnection at rated power	$K_i=1.035$
Worst value of all switching operations	$K_{i_{max}}=1.093$

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Flicker (>16 A and ≤75 A) (KAC50DP)						
Simulated network voltage (V)	L1-N	230	Network impedance		L1	--
	L2-N	230			L2	--
	L3-N	230			L3	--
	--	--			N	--
EZE operating current (A)	L1	72	EZE operating power (VA)		L1	16667
	L2	72			L2	16667
	L3	72			L3	16667
Simulated network frequency (Hz)	50		Short circuit power Sk (VA)	1815000		
Plt (Maximum measured Pst)	L1	0.371	EZE nominal power (W)		50000	
	L2	0.360				
	L3	0.329				
Maximum flicker coefficient C _{φk}	L1	12.243	--		--	
	L2	11.880				
	L3	10.857				
Pst	#1	#2	#3	#4	#5	#6
L1	0.159	0.268	0.332	0.371	0.339	0.329
L2	0.165	0.260	0.321	0.360	0.341	0.323
L3	0.164	0.240	0.296	0.329	0.309	0.292
Pst	#7	#8	#9	#10	#11	#12
L1	0.363	0.330	0.163	0.161	0.303	0.371
L2	0.356	0.330	0.160	0.158	0.275	0.360
L3	0.320	0.298	0.165	0.164	0.264	0.328

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Harmonics (>16 A and ≤75 A) (KAC50DP)												
Phase L1												
Harm on. Nr.	P/P _{E_{max}}											Limit
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	
1	0.97%	9.96%	20.49%	30.54%	40.66%	50.71%	60.71%	71.14%	82.35%	91.46%	101.43%	--
2	0.83%	0.87%	0.95%	1.01%	1.01%	1.15%	1.17%	1.16%	1.16%	1.22%	1.39%	8%
3	0.20%	0.29%	0.31%	0.31%	0.31%	0.34%	0.34%	0.36%	0.38%	0.44%	0.44%	--
4	0.18%	0.22%	0.09%	0.11%	0.14%	0.17%	0.17%	0.19%	0.21%	0.21%	0.22%	4%
5	0.32%	0.61%	0.62%	0.66%	0.85%	0.99%	1.03%	1.04%	1.03%	1.05%	1.01%	10.7%
6	0.16%	0.19%	0.38%	0.44%	0.43%	0.39%	0.38%	0.37%	0.36%	0.33%	0.27%	2.6%
7	0.30%	0.39%	0.42%	0.42%	0.32%	0.41%	0.43%	0.51%	0.59%	0.68%	0.72%	7.2%
8	0.14%	0.12%	0.09%	0.09%	0.10%	0.15%	0.17%	0.19%	0.23%	0.19%	0.17%	2%
9	0.10%	0.11%	0.10%	0.11%	0.10%	0.11%	0.10%	0.10%	0.10%	0.10%	0.10%	--
10	0.12%	0.12%	0.09%	0.10%	0.11%	0.15%	0.16%	0.18%	0.21%	0.19%	0.15%	1.6%
11	0.12%	0.14%	0.10%	0.14%	0.21%	0.27%	0.25%	0.24%	0.24%	0.33%	0.41%	3.1%
12	0.10%	0.12%	0.09%	0.10%	0.09%	0.11%	0.12%	0.12%	0.14%	0.13%	0.14%	1.3%
13	0.11%	0.16%	0.16%	0.12%	0.17%	0.21%	0.20%	0.18%	0.16%	0.21%	0.26%	2.0%
14	0.10%	0.11%	0.09%	0.10%	0.10%	0.11%	0.11%	0.12%	0.13%	0.10%	0.10%	--
15	0.10%	0.09%	0.09%	0.09%	0.09%	0.09%	0.10%	0.10%	0.10%	0.11%	0.11%	--
16	0.09%	0.09%	0.10%	0.10%	0.09%	0.11%	0.11%	0.11%	0.12%	0.12%	0.13%	--
17	0.10%	0.13%	0.16%	0.15%	0.13%	0.13%	0.15%	0.14%	0.11%	0.14%	0.18%	--
18	0.09%	0.10%	0.11%	0.10%	0.09%	0.11%	0.11%	0.11%	0.12%	0.10%	0.11%	--
19	0.10%	0.14%	0.15%	0.13%	0.13%	0.10%	0.10%	0.12%	0.15%	0.22%	0.25%	--
20	0.10%	0.09%	0.10%	0.10%	0.10%	0.10%	0.10%	0.11%	0.12%	0.10%	0.09%	--
21	0.09%	0.09%	0.09%	0.09%	0.09%	0.09%	0.10%	0.10%	0.09%	0.09%	0.09%	--
22	0.10%	0.10%	0.10%	0.10%	0.10%	0.09%	0.10%	0.10%	0.11%	0.11%	0.13%	--
23	0.09%	0.10%	0.11%	0.11%	0.10%	0.10%	0.10%	0.11%	0.19%	0.25%	0.25%	--
24	0.09%	0.09%	0.10%	0.10%	0.10%	0.10%	0.10%	0.09%	0.11%	0.09%	0.10%	--
25	0.09%	0.10%	0.11%	0.10%	0.10%	0.12%	0.15%	0.25%	0.45%	0.55%	0.44%	--
26	0.10%	0.09%	0.09%	0.10%	0.10%	0.10%	0.10%	0.10%	0.09%	0.10%	0.12%	--
27	0.09%	0.10%	0.09%	0.09%	0.09%	0.09%	0.10%	0.10%	0.10%	0.12%	0.13%	--
28	0.09%	0.10%	0.09%	0.10%	0.09%	0.09%	0.10%	0.12%	0.13%	0.10%	0.11%	--
29	0.11%	0.11%	0.10%	0.11%	0.12%	0.13%	0.17%	0.27%	0.52%	0.67%	0.58%	--
30	0.09%	0.10%	0.09%	0.09%	0.09%	0.09%	0.09%	0.09%	0.10%	0.11%	0.13%	--
31	0.10%	0.10%	0.10%	0.10%	0.09%	0.09%	0.10%	0.09%	0.10%	0.10%	0.12%	--
32	0.09%	0.10%	0.10%	0.10%	0.10%	0.09%	0.09%	0.09%	0.09%	0.09%	0.10%	--
33	0.09%	0.10%	0.09%	0.09%	0.09%	0.09%	0.09%	0.09%	0.09%	0.10%	0.10%	--
34	0.09%	0.10%	0.10%	0.09%	0.09%	0.09%	0.09%	0.09%	0.09%	0.09%	0.09%	--
35	0.10%	0.10%	0.10%	0.09%	0.10%	0.09%	0.09%	0.09%	0.09%	0.12%	0.16%	--
36	0.09%	0.09%	0.10%	0.10%	0.09%	0.09%	0.09%	0.09%	0.09%	0.09%	0.09%	--
37	0.10%	0.09%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.14%	0.15%	0.15%	--
38	0.09%	0.09%	0.10%	0.10%	0.10%	0.10%	0.10%	0.09%	0.09%	0.10%	0.10%	--
39	0.09%	0.09%	0.09%	0.09%	0.10%	0.09%	0.09%	0.09%	0.09%	0.09%	0.09%	--
40	0.09%	0.09%	0.10%	0.10%	0.09%	0.10%	0.09%	0.10%	0.09%	0.09%	0.09%	--
THD	1.14%	1.35%	1.44%	1.51%	1.59%	1.80%	1.84%	1.89%	2.02%	2.18%	2.25%	13%
PWH D	2.54%	2.66%	2.74%	2.70%	2.65%	2.66%	2.82%	3.22%	4.57%	5.47%	5.06%	22%
Phase L2												
Harm	P/P _{E_{max}}											Limit

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on. Nr.	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	
1	1.07%	9.87%	20.21%	30.28%	40.3%	50.37%	60.41%	70.81%	80.88%	90.56%	100.10%	--
2	0.56%	0.77%	0.61%	0.58%	0.61%	0.69%	0.72%	0.71%	0.77%	0.88%	1.06%	8%
3	0.22%	0.25%	0.40%	0.39%	0.42%	0.43%	0.44%	0.49%	0.59%	0.80%	1.09%	--
4	0.27%	0.19%	0.40%	0.43%	0.50%	0.55%	0.59%	0.62%	0.61%	0.56%	0.51%	4%
5	0.34%	0.54%	0.73%	0.86%	1.01%	1.15%	1.21%	1.21%	1.15%	1.04%	0.88%	10.7%
6	0.28%	0.26%	0.48%	0.54%	0.58%	0.49%	0.47%	0.47%	0.52%	0.59%	0.65%	2.6%
7	0.25%	0.31%	0.41%	0.34%	0.27%	0.27%	0.29%	0.35%	0.46%	0.62%	0.82%	7.2%
8	0.18%	0.13%	0.18%	0.15%	0.18%	0.21%	0.26%	0.29%	0.37%	0.53%	0.74%	2%
9	0.09%	0.11%	0.11%	0.11%	0.12%	0.10%	0.10%	0.11%	0.11%	0.16%	0.25%	--
10	0.15%	0.11%	0.14%	0.18%	0.20%	0.20%	0.19%	0.19%	0.22%	0.35%	0.57%	1.6%
11	0.14%	0.12%	0.09%	0.13%	0.19%	0.23%	0.23%	0.22%	0.22%	0.24%	0.26%	3.1%
12	0.13%	0.13%	0.11%	0.09%	0.11%	0.17%	0.19%	0.22%	0.32%	0.46%	0.66%	1.3%
13	0.13%	0.15%	0.15%	0.13%	0.14%	0.16%	0.18%	0.16%	0.16%	0.21%	0.26%	2.0%
14	0.09%	0.11%	0.09%	0.10%	0.10%	0.10%	0.11%	0.11%	0.10%	0.22%	0.46%	--
15	0.09%	0.10%	0.10%	0.09%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.16%	--
16	0.09%	0.10%	0.11%	0.09%	0.09%	0.10%	0.11%	0.12%	0.14%	0.26%	0.42%	--
17	0.10%	0.14%	0.14%	0.13%	0.13%	0.13%	0.14%	0.13%	0.11%	0.10%	0.15%	--
18	0.10%	0.09%	0.12%	0.10%	0.09%	0.11%	0.13%	0.15%	0.21%	0.28%	0.42%	--
19	0.09%	0.12%	0.13%	0.13%	0.11%	0.09%	0.09%	0.10%	0.14%	0.19%	0.31%	--
20	0.09%	0.09%	0.10%	0.10%	0.10%	0.09%	0.10%	0.12%	0.09%	0.14%	0.23%	--
21	0.09%	0.09%	0.10%	0.10%	0.09%	0.09%	0.09%	0.10%	0.10%	0.18%	0.33%	--
22	0.09%	0.10%	0.10%	0.09%	0.10%	0.09%	0.09%	0.10%	0.12%	0.17%	0.20%	--
23	0.09%	0.09%	0.10%	0.11%	0.10%	0.10%	0.11%	0.13%	0.18%	0.24%	0.29%	--
24	0.11%	0.10%	0.10%	0.11%	0.10%	0.10%	0.10%	0.15%	0.19%	0.14%	0.19%	--
25	0.10%	0.10%	0.10%	0.12%	0.11%	0.13%	0.16%	0.25%	0.45%	0.68%	0.77%	--
26	0.10%	0.09%	0.09%	0.09%	0.10%	0.09%	0.09%	0.10%	0.10%	0.13%	0.17%	--
27	0.10%	0.09%	0.09%	0.09%	0.10%	0.10%	0.10%	0.11%	0.12%	0.23%	0.31%	--
28	0.09%	0.10%	0.09%	0.09%	0.09%	0.09%	0.10%	0.12%	0.13%	0.10%	0.11%	--
29	0.10%	0.11%	0.10%	0.11%	0.12%	0.13%	0.16%	0.26%	0.43%	0.46%	0.38%	--
30	0.09%	0.13%	0.10%	0.09%	0.09%	0.09%	0.09%	0.10%	0.11%	0.12%	0.20%	--
31	0.09%	0.09%	0.10%	0.11%	0.10%	0.10%	0.09%	0.09%	0.12%	0.28%	0.44%	--
32	0.09%	0.10%	0.09%	0.09%	0.09%	0.09%	0.09%	0.09%	0.10%	0.16%	0.28%	--
33	0.10%	0.10%	0.10%	0.09%	0.10%	0.09%	0.09%	0.09%	0.10%	0.17%	0.22%	--
34	0.09%	0.09%	0.09%	0.09%	0.09%	0.09%	0.10%	0.09%	0.10%	0.17%	0.27%	--
35	0.10%	0.10%	0.10%	0.09%	0.10%	0.09%	0.09%	0.09%	0.10%	0.14%	0.22%	--
36	0.09%	0.10%	0.11%	0.10%	0.09%	0.10%	0.09%	0.10%	0.11%	0.21%	0.32%	--
37	0.09%	0.10%	0.10%	0.09%	0.10%	0.10%	0.10%	0.11%	0.13%	0.17%	0.16%	--
38	0.09%	0.09%	0.09%	0.10%	0.09%	0.09%	0.10%	0.09%	0.11%	0.22%	0.32%	--
39	0.09%	0.09%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	--
40	0.09%	0.09%	0.09%	0.10%	0.09%	0.09%	0.09%	0.10%	0.11%	0.20%	0.28%	--
THD	1.02%	1.23%	1.42%	1.48%	1.63%	1.75%	1.84%	1.90%	2.07%	2.41%	2.94%	13%
PWH D	2.53%	2.69%	2.71%	2.69%	2.66%	2.66%	2.81%	3.34%	4.51%	6.35%	8.29%	22%
Phase L3												
Harm on. Nr.	P/P _{E_{max}}											Limit
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	

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1	0.91%	9.9%	20.40%	30.51%	40.54%	50.58%	60.64%	71.01%	81.08%	90.93%	100.73%	--		
2	0.61%	0.73%	0.57%	0.60%	0.59%	0.71%	0.73%	0.71%	0.72%	0.85%	1.11%	8%		
3	0.20%	0.20%	0.28%	0.31%	0.32%	0.33%	0.33%	0.37%	0.48%	0.69%	1.02%	--		
4	0.15%	0.13%	0.42%	0.47%	0.58%	0.56%	0.58%	0.60%	0.60%	0.52%	0.46%	4%		
5	0.41%	0.68%	0.76%	0.80%	0.91%	1.00%	1.03%	1.01%	0.91%	0.77%	0.65%	10.7%		
6	0.21%	0.15%	0.15%	0.15%	0.19%	0.17%	0.18%	0.20%	0.24%	0.35%	0.47%	2.6%		
7	0.30%	0.39%	0.46%	0.41%	0.34%	0.39%	0.38%	0.45%	0.57%	0.78%	1.01%	7.2%		
8	0.21%	0.13%	0.19%	0.16%	0.17%	0.13%	0.14%	0.17%	0.20%	0.36%	0.61%	2%		
9	0.11%	0.10%	0.10%	0.11%	0.11%	0.10%	0.10%	0.10%	0.11%	0.17%	0.26%	--		
10	0.12%	0.10%	0.14%	0.15%	0.16%	0.11%	0.10%	0.10%	0.12%	0.29%	0.54%	1.6%		
11	0.13%	0.14%	0.10%	0.13%	0.23%	0.27%	0.25%	0.25%	0.22%	0.25%	0.30%	3.1%		
12	0.13%	0.10%	0.10%	0.10%	0.10%	0.13%	0.13%	0.16%	0.22%	0.37%	0.56%	1.3%		
13	0.14%	0.17%	0.14%	0.13%	0.15%	0.20%	0.20%	0.18%	0.17%	0.26%	0.36%	2.0%		
14	0.11%	0.12%	0.10%	0.10%	0.10%	0.12%	0.13%	0.12%	0.11%	0.22%	0.42%	--		
15	0.09%	0.11%	0.10%	0.10%	0.10%	0.10%	0.09%	0.10%	0.11%	0.13%	0.20%	--		
16	0.09%	0.11%	0.11%	0.10%	0.10%	0.11%	0.11%	0.11%	0.11%	0.19%	0.37%	--		
17	0.11%	0.14%	0.17%	0.15%	0.14%	0.14%	0.14%	0.14%	0.10%	0.17%	0.28%	--		
18	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.12%	0.16%	0.24%	0.37%	--		
19	0.09%	0.13%	0.17%	0.14%	0.12%	0.11%	0.10%	0.10%	0.16%	0.32%	0.50%	--		
20	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.11%	0.11%	0.12%	0.16%	0.22%	--		
21	0.09%	0.10%	0.09%	0.10%	0.10%	0.09%	0.10%	0.09%	0.11%	0.19%	0.33%	--		
22	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.12%	0.17%	--		
23	0.09%	0.10%	0.11%	0.11%	0.10%	0.10%	0.11%	0.13%	0.23%	0.39%	0.50%	--		
24	0.11%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.13%	0.13%	0.14%	0.18%	--		
25	0.10%	0.10%	0.12%	0.12%	0.11%	0.13%	0.15%	0.24%	0.50%	0.74%	0.76%	--		
26	0.11%	0.10%	0.09%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.13%	0.16%	--		
27	0.10%	0.10%	0.10%	0.09%	0.10%	0.10%	0.10%	0.11%	0.12%	0.19%	0.28%	--		
28	0.10%	0.10%	0.09%	0.09%	0.09%	0.09%	0.10%	0.11%	0.12%	0.10%	0.15%	--		
29	0.10%	0.11%	0.10%	0.11%	0.12%	0.13%	0.18%	0.28%	0.52%	0.56%	0.31%	--		
30	0.09%	0.11%	0.09%	0.09%	0.09%	0.09%	0.09%	0.10%	0.10%	0.11%	0.13%	--		
31	0.10%	0.11%	0.10%	0.10%	0.09%	0.10%	0.10%	0.10%	0.12%	0.26%	0.37%	--		
32	0.10%	0.09%	0.10%	0.10%	0.09%	0.09%	0.09%	0.09%	0.09%	0.16%	0.26%	--		
33	0.09%	0.10%	0.10%	0.09%	0.10%	0.09%	0.10%	0.10%	0.11%	0.16%	0.19%	--		
34	0.10%	0.10%	0.10%	0.09%	0.10%	0.10%	0.10%	0.09%	0.10%	0.17%	0.26%	--		
35	0.09%	0.10%	0.09%	0.10%	0.10%	0.10%	0.09%	0.09%	0.10%	0.10%	0.13%	--		
36	0.09%	0.10%	0.10%	0.10%	0.09%	0.09%	0.09%	0.10%	0.12%	0.19%	0.30%	--		
37	0.10%	0.09%	0.10%	0.09%	0.09%	0.09%	0.10%	0.11%	0.16%	0.20%	0.18%	--		
38	0.09%	0.10%	0.10%	0.10%	0.09%	0.10%	0.10%	0.10%	0.11%	0.20%	0.28%	--		
39	0.09%	0.10%	0.10%	0.10%	0.09%	0.09%	0.10%	0.10%	0.10%	0.10%	0.10%	--		
40	0.09%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.11%	0.20%	0.26%	--		
THD	1.06%	1.27%	1.34%	1.38%	1.48%	1.60%	1.64%	1.69%	1.85%	2.26%	2.85%	13%		
PWH D	2.61%	2.79%	2.81%	2.75%	2.68%	2.73%	2.89%	3.34%	4.91%	6.84%	8.15%	22%		
Phase L1														
Inter- harmon. (Hz)	P/P _{E_{max}}											Limit		
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%			
	75	0.02%	0.02%	0.04%	0.04%	0.99%	1.49%	0.06%	0.09%	0.17%	0.13%		0.13%	-
	125	0.01%	0.02%	0.03%	0.03%	0.83%	1.17%	0.06%	0.05%	0.09%	0.12%		0.11%	-
175	0.01%	0.02%	0.02%	0.02%	0.68%	0.84%	0.05%	0.04%	0.07%	0.15%	0.13%	-		

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225	0.01%	0.02%	0.02%	0.02%	0.40%	0.47%	0.03%	0.04%	0.09%	0.22%	0.22%	-
275	0.01%	0.01%	0.02%	0.01%	0.12%	0.19%	0.02%	0.02%	0.05%	0.08%	0.08%	-
325	0.01%	0.01%	0.01%	0.01%	0.10%	0.15%	0.02%	0.03%	0.08%	0.21%	0.20%	-
375	0.01%	0.01%	0.01%	0.01%	0.08%	0.11%	0.01%	0.01%	0.02%	0.03%	0.03%	-
425	0.01%	0.01%	0.01%	0.01%	0.06%	0.10%	0.01%	0.01%	0.01%	0.02%	0.01%	-
475	0.01%	0.01%	0.01%	0.01%	0.05%	0.07%	0.01%	0.01%	0.01%	0.01%	0.01%	-
525	0.01%	0.01%	0.01%	0.01%	0.03%	0.05%	0.01%	0.01%	0.02%	0.03%	0.03%	-
575	0.01%	0.01%	0.01%	0.01%	0.03%	0.04%	0.01%	0.01%	0.01%	0.01%	0.01%	-
625	0.01%	0.01%	0.01%	0.01%	0.02%	0.04%	0.01%	0.01%	0.02%	0.02%	0.02%	-
675	0.01%	0.01%	0.01%	0.01%	0.02%	0.03%	0.01%	0.01%	0.01%	0.01%	0.01%	-
725	0.01%	0.01%	0.01%	0.01%	0.02%	0.03%	0.01%	0.01%	0.01%	0.01%	0.01%	-
775	0.01%	0.00%	0.01%	0.01%	0.02%	0.03%	0.01%	0.01%	0.01%	0.01%	0.01%	-
825	0.01%	0.00%	0.01%	0.01%	0.02%	0.03%	0.01%	0.01%	0.01%	0.01%	0.01%	-
875	0.01%	0.01%	0.01%	0.01%	0.02%	0.03%	0.01%	0.01%	0.01%	0.01%	0.01%	-
925	0.01%	0.01%	0.01%	0.01%	0.02%	0.03%	0.01%	0.01%	0.01%	0.01%	0.01%	-
975	0.01%	0.00%	0.01%	0.01%	0.02%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1025	0.01%	0.00%	0.00%	0.01%	0.01%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1075	0.01%	0.00%	0.01%	0.01%	0.01%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1175	0.01%	0.00%	0.00%	0.00%	0.02%	0.03%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1225	0.01%	0.00%	0.00%	0.00%	0.01%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1275	0.01%	0.00%	0.01%	0.01%	0.02%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1325	0.01%	0.00%	0.01%	0.01%	0.02%	0.03%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1375	0.01%	0.00%	0.00%	0.01%	0.01%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1425	0.01%	0.01%	0.00%	0.00%	0.01%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1475	0.01%	0.01%	0.00%	0.01%	0.02%	0.03%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1525	0.01%	0.01%	0.01%	0.01%	0.01%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1575	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1625	0.01%	0.01%	0.01%	0.01%	0.01%	0.02%	0.01%	0.00%	0.01%	0.01%	0.01%	-
1675	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1725	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1775	0.01%	0.01%	0.01%	0.01%	0.01%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1825	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1875	0.01%	0.01%	0.01%	0.01%	0.01%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1925	0.01%	0.01%	0.01%	0.01%	0.01%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1975	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
Phase L2												
Inter-harmon. (Hz)	P/P _{Emax}											Limit
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	
75	0.04%	0.04%	0.05%	0.05%	0.94%	1.37%	0.07%	0.09%	0.17%	0.11%	0.10%	-
125	0.03%	0.04%	0.04%	0.04%	0.77%	1.10%	0.07%	0.06%	0.09%	0.11%	0.13%	-
175	0.03%	0.04%	0.04%	0.04%	0.67%	0.89%	0.06%	0.06%	0.11%	0.15%	0.15%	-
225	0.03%	0.03%	0.03%	0.03%	0.41%	0.48%	0.05%	0.05%	0.11%	0.25%	0.24%	-
275	0.03%	0.02%	0.02%	0.03%	0.15%	0.21%	0.03%	0.03%	0.06%	0.07%	0.08%	-
325	0.02%	0.02%	0.02%	0.02%	0.12%	0.17%	0.03%	0.03%	0.08%	0.21%	0.20%	-
375	0.02%	0.01%	0.02%	0.02%	0.09%	0.12%	0.02%	0.02%	0.03%	0.04%	0.04%	-
425	0.01%	0.01%	0.01%	0.01%	0.07%	0.09%	0.02%	0.02%	0.02%	0.02%	0.02%	-
475	0.01%	0.01%	0.01%	0.01%	0.05%	0.07%	0.02%	0.01%	0.02%	0.02%	0.02%	-
525	0.01%	0.01%	0.01%	0.01%	0.03%	0.05%	0.01%	0.01%	0.02%	0.03%	0.03%	-
575	0.01%	0.01%	0.01%	0.01%	0.03%	0.05%	0.01%	0.01%	0.01%	0.01%	0.01%	-

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625	0.01%	0.01%	0.01%	0.01%	0.03%	0.04%	0.01%	0.01%	0.02%	0.02%	0.02%	-
675	0.01%	0.01%	0.01%	0.01%	0.02%	0.04%	0.01%	0.01%	0.01%	0.01%	0.01%	-
725	0.01%	0.01%	0.01%	0.01%	0.02%	0.03%	0.01%	0.01%	0.01%	0.01%	0.01%	-
775	0.01%	0.01%	0.01%	0.01%	0.02%	0.03%	0.01%	0.01%	0.01%	0.01%	0.01%	-
825	0.01%	0.01%	0.01%	0.01%	0.02%	0.03%	0.01%	0.01%	0.01%	0.01%	0.01%	-
875	0.01%	0.01%	0.01%	0.01%	0.02%	0.03%	0.01%	0.01%	0.01%	0.01%	0.01%	-
925	0.01%	0.01%	0.01%	0.01%	0.02%	0.03%	0.01%	0.01%	0.01%	0.01%	0.01%	-
975	0.01%	0.01%	0.01%	0.01%	0.02%	0.03%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1025	0.01%	0.01%	0.01%	0.01%	0.01%	0.03%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1075	0.01%	0.00%	0.01%	0.01%	0.01%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1175	0.01%	0.01%	0.00%	0.01%	0.02%	0.03%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1225	0.01%	0.00%	0.00%	0.00%	0.02%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1275	0.01%	0.00%	0.01%	0.01%	0.01%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1325	0.01%	0.00%	0.01%	0.01%	0.02%	0.03%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1375	0.01%	0.01%	0.01%	0.01%	0.01%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1425	0.01%	0.01%	0.00%	0.01%	0.01%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1475	0.01%	0.01%	0.01%	0.01%	0.02%	0.03%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1525	0.01%	0.01%	0.01%	0.01%	0.02%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1575	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.00%	0.01%	0.01%	0.01%	0.01%	-
1625	0.01%	0.01%	0.01%	0.01%	0.01%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1675	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1725	0.01%	0.01%	0.01%	0.01%	0.01%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1775	0.01%	0.01%	0.01%	0.01%	0.01%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1825	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1875	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1925	0.01%	0.01%	0.01%	0.01%	0.01%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1975	0.01%	0.01%	0.01%	0.01%	0.01%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
Phase L3												
Inter-harmon. (Hz)	P/P _{E_{max}}											Limit
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	
75	0.04%	0.04%	0.05%	0.05%	1.00%	1.44%	0.07%	0.10%	0.17%	0.12%	0.11%	-
125	0.04%	0.04%	0.05%	0.04%	0.82%	1.15%	0.07%	0.06%	0.10%	0.13%	0.11%	-
175	0.03%	0.04%	0.04%	0.04%	0.67%	0.83%	0.06%	0.06%	0.07%	0.09%	0.10%	-
225	0.03%	0.03%	0.03%	0.03%	0.39%	0.47%	0.05%	0.05%	0.12%	0.29%	0.28%	-
275	0.03%	0.02%	0.03%	0.03%	0.11%	0.16%	0.03%	0.03%	0.06%	0.10%	0.10%	-
325	0.02%	0.02%	0.02%	0.02%	0.10%	0.13%	0.03%	0.03%	0.08%	0.21%	0.20%	-
375	0.02%	0.01%	0.02%	0.02%	0.08%	0.10%	0.02%	0.02%	0.03%	0.04%	0.03%	-
425	0.01%	0.01%	0.01%	0.01%	0.05%	0.08%	0.02%	0.02%	0.02%	0.02%	0.02%	-
475	0.01%	0.01%	0.01%	0.01%	0.04%	0.06%	0.02%	0.01%	0.02%	0.02%	0.02%	-
525	0.01%	0.01%	0.01%	0.01%	0.03%	0.05%	0.01%	0.01%	0.03%	0.03%	0.03%	-
575	0.01%	0.01%	0.01%	0.01%	0.02%	0.04%	0.01%	0.01%	0.01%	0.01%	0.01%	-
625	0.01%	0.01%	0.01%	0.01%	0.02%	0.03%	0.01%	0.01%	0.02%	0.02%	0.02%	-
675	0.01%	0.01%	0.01%	0.01%	0.01%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
725	0.01%	0.01%	0.01%	0.01%	0.01%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
775	0.01%	0.01%	0.01%	0.01%	0.01%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
825	0.01%	0.01%	0.01%	0.01%	0.01%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
875	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
925	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
975	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-

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1025	0.00%	0.00%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1075	0.01%	0.00%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1175	0.01%	0.00%	0.01%	0.01%	0.01%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1225	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1275	0.01%	0.01%	0.01%	0.01%	0.02%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1325	0.01%	0.01%	0.01%	0.01%	0.01%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1375	0.01%	0.00%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1425	0.01%	0.01%	0.00%	0.00%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1475	0.01%	0.01%	0.01%	0.01%	0.02%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1525	0.01%	0.01%	0.01%	0.01%	0.02%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1575	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1625	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1675	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1725	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1775	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1825	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1875	0.01%	0.01%	0.01%	0.01%	0.01%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1925	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
1975	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
Phase L1												
Higher-harmon. (kHz)	P/P _{E_{max}}											Limit
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	
2.1	0.02%	0.03%	0.03%	0.04%	0.04%	0.05%	0.07%	0.09%	0.08%	0.09%	0.09%	-
2.3	0.02%	0.02%	0.03%	0.04%	0.04%	0.04%	0.05%	0.06%	0.06%	0.06%	0.05%	-
2.5	0.02%	0.02%	0.02%	0.03%	0.04%	0.04%	0.04%	0.04%	0.05%	0.05%	0.05%	-
2.7	0.01%	0.02%	0.02%	0.02%	0.02%	0.03%	0.03%	0.03%	0.03%	0.03%	0.04%	-
2.9	0.01%	0.01%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.03%	-
3.1	0.01%	0.01%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	-
3.3	0.01%	0.01%	0.01%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	-
3.5	0.01%	0.01%	0.01%	0.01%	0.02%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
3.7	0.01%	0.01%	0.01%	0.01%	0.02%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
3.9	0.01%	0.01%	0.01%	0.01%	0.01%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
4.1	0.01%	0.01%	0.01%	0.01%	0.01%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
4.3	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
4.5	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
4.7	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
4.9	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
5.1	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
5.3	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
5.5	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
5.7	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
5.9	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
6.1	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
6.3	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
6.5	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
6.7	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
6.9	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
7.1	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
7.3	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-

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7.5	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
7.7	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
7.9	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
8.1	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
8.3	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
8.5	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
8.7	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
8.9	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
Phase L2												
Higher-harmon. (kHz)	P/P _{E_{max}}											Limit
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	
2.1	0.03%	0.04%	0.03%	0.03%	0.03%	0.05%	0.06%	0.08%	0.07%	0.08%	0.08%	-
2.3	0.03%	0.02%	0.03%	0.04%	0.04%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	-
2.5	0.02%	0.02%	0.02%	0.03%	0.04%	0.04%	0.04%	0.04%	0.05%	0.05%	0.05%	-
2.7	0.01%	0.02%	0.02%	0.02%	0.02%	0.03%	0.02%	0.03%	0.03%	0.04%	0.04%	-
2.9	0.01%	0.01%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	-
3.1	0.01%	0.01%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	-
3.3	0.01%	0.01%	0.01%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	-
3.5	0.01%	0.01%	0.01%	0.01%	0.02%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
3.7	0.01%	0.01%	0.01%	0.01%	0.02%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
3.9	0.01%	0.01%	0.01%	0.01%	0.01%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
4.1	0.01%	0.01%	0.01%	0.01%	0.01%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
4.3	0.01%	0.01%	0.01%	0.01%	0.01%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
4.5	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
4.7	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
4.9	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
5.1	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
5.3	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
5.5	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
5.7	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
5.9	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
6.1	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
6.3	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
6.5	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
6.7	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
6.9	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
7.1	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
7.3	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
7.5	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
7.7	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
7.9	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
8.1	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
8.3	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
8.5	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
8.7	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
8.9	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
Phase L3												
Higher-harmon. (kHz)	P/P _{E_{max}}											Limit
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	

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2.1	0.02%	0.03%	0.03%	0.04%	0.04%	0.06%	0.08%	0.08%	0.08%	0.09%	0.10%	-
2.3	0.03%	0.02%	0.03%	0.04%	0.04%	0.04%	0.05%	0.05%	0.05%	0.05%	0.05%	-
2.5	0.02%	0.02%	0.03%	0.03%	0.03%	0.03%	0.04%	0.04%	0.04%	0.04%	0.05%	-
2.7	0.01%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.03%	0.04%	0.04%	0.04%	-
2.9	0.01%	0.01%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.03%	-
3.1	0.01%	0.01%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	-
3.3	0.01%	0.01%	0.01%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	0.02%	-
3.5	0.01%	0.01%	0.01%	0.01%	0.01%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	-
3.7	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
3.9	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
4.1	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
4.3	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
4.5	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
4.7	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
4.9	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
5.1	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
5.3	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
5.5	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
5.7	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
5.9	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
6.1	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
6.3	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
6.5	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
6.7	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
6.9	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
7.1	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
7.3	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
7.5	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
7.7	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
7.9	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
8.1	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
8.3	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
8.5	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
8.7	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-
8.9	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	-

Remark:

1. Iref=72 Ad.c.
2. The harmonic values are maximum values from all phases.