

<b>Title</b>	<b>Efficiency and Heat Loss</b>	<b>Model</b>	<b>M100, G100, S100, H100+, iS7</b>
<b>Classification</b>	<b>General Information</b>	<b>Document No.</b>	<b>LSIS-VFD-TI-2022-07</b>

**1. Test Condition**

- Operation at 60Hz and room temperature
- 100% load (M-G Set load, Corresponding motor to drive)
- Carrier Frequency (Default value)

**2. Simulation**

- The power consumption of the drive itself considered
- SMPS power loss not included in heat loss

\* One unit of each frame is actually tested. The data of the other ratings within the same frame are simulated values as same hardware designs are shared in the same frame.

**◆ M100, G100**

Voltage	Series	Model Number	Rated Power (kW)	HD Rated output Current (A)	ND Rated output Current (A)	Frame size	Efficiency (%)	Total Losses (W)	Internal Losses (W)	External (Heat) Losses (W)	Heat Losses in (Kcal)
240	M100	LSLV0001M100-1	0.1	0.8	-	A	95.00	7	5	2	1
240	M100	LSLV0002M100-1	0.2	1.4	-	A	96.00	12	8	4	3
240	M100	LSLV0004M100-1	0.4	2.4	-	B	96.70	21	13	8	7
240	M100	LSLV0008M100-1	0.8	4.2	-	B	97.05	40	13	27	23
240	M100	LSLV0015M100-1	1.5	7.5	-	C	97.10	74	14	59	51
240	M100	LSLV0022M100-1	2.2	10	-	C	97.15	107	14	92	79
240	G100	LSLV0004G100-2	0.4	2.5	3.1	A	96.40	22	17	6	5
240	G100	LSLV0008G100-2	0.8	5	6	A	96.40	45	17	28	24
240	G100	LSLV0015G100-2	1.5	8	9.6	B	96.70	79	17	62	53
240	G100	LSLV0022G100-2	2.2	11	12	B	96.70	117	17	99	85
240	G100	LSLV0040G100-2	4	17	18	C	96.80	208	18	190	164
240	G100	LSLV0055G100-2	5.5	24	30	D	96.90	281	19	262	225
240	G100	LSLV0075G100-2	7.5	32	40	D	96.90	382	19	364	313
440	G100	LSLV0004G100-4	0.4	1.3	2	A	96.00	24	17	7	6
440	G100	LSLV0008G100-4	0.8	2.5	3.1	A	96.80	42	17	24	21
440	G100	LSLV0015G100-4	1.5	4	5.1	B	97.30	71	18	53	45
440	G100	LSLV0022G100-4	2.2	5.5	6.9	B	97.50	99	18	81	70
440	G100	LSLV0040G100-4	4	9	10	C	97.60	176	19	157	135
440	G100	LSLV0055G100-4	5.5	12	16	D	97.80	231	20	211	182
440	G100	LSLV0075G100-4	7.5	16	23	D	97.80	315	20	295	254

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◆ **S100**

<b>Voltage</b>	<b>Series</b>	<b>Model Number</b>	<b>Rated Power (kW)</b>	<b>HD Rated output Current (A)</b>	<b>ND Rated output Current (A)</b>	<b>Frame size</b>	<b>Efficiency (%)</b>	<b>Total Losses (W)</b>	<b>Internal Losses (W)</b>	<b>External (Heat) Losses (W)</b>	<b>Heat Losses in (Kcal)</b>
240	S100	LSLV0004S100-1	0.4	2.5	3.1	A-2	96.50	22	13	9	8
240	S100	LSLV0008S100-1	0.8	5	6	B-1	96.60	43	13	31	26
240	S100	LSLV0015S100-1	1.5	8	9.6	B-2	96.80	78	13	65	56
240	S100	LSLV0022S100-1	2.2	11	12	C	96.90	112	13	100	86
240	S100	LSLV0004S100-2	0.4	2.5	3.1	A-1	96.60	22	13	9	8
240	S100	LSLV0008S100-2	0.8	5	6	A-2	96.70	42	13	30	26
240	S100	LSLV0015S100-2	1.5	8	9.6	B-1	96.90	76	17	60	51
240	S100	LSLV0022S100-2	2.2	11	12	B-2	97.00	110	17	93	80
240	S100	LSLV0037S100-2	3.7	16	18	C	97.20	178	19	159	136
240	S100	LSLV0040S100-2	4.0	17	18.0	C	97.30	188	19	169	145
240	S100	LSLV0055S100-2	5.5	24	30	D	97.50	248	39	209	180
240	S100	LSLV0075S100-2	7.5	32	40	D	97.50	338	39	299	257
240	S100	LSLV0110S100-2	11	46	56	E	97.80	462	39	423	364
240	S100	LSLV0150S100-2	15	60	69	F	98.00	600	39	561	483
480	S100	LSLV0004S100-4	0.4	1.25	1.56	A-1	96.70	21	13	9	7
480	S100	LSLV0008S100-4	0.8	2.5	3.1	A-2	96.70	42	13	30	26
480	S100	LSLV0015S100-4	1.5	4	5	B-1	96.90	76	17	60	51
480	S100	LSLV0022S100-4	2.2	5.5	6.9	B-2	97.00	110	17	93	80
480	S100	LSLV0037S100-4	3.7	8	10	C	97.30	174	21	153	131
480	S100	LSLV0040S100-4	4.0	9	10.0	C	97.30	188	21	167	144
480	S100	LSLV0055S100-4	5.5	12	16	D	97.40	253	43	210	181
480	S100	LSLV0075S100-4	7.5	16	23	D	97.50	338	43	295	253
480	S100	LSLV0110S100-4	11	24	30	E	97.50	495	43	452	389
480	S100	LSLV0150S100-4	15	30	38	E	97.50	675	43	632	544
480	S100	LSLV0185S100-4	18.5	39	44	F	97.60	814	43	771	663
480	S100	LSLV0220S100-4	22	45	58	F	97.70	946	43	903	777
480	S100	LSLV0300S100-4	30	61	75	G	97.70	1290	107	1,183	1017
480	S100	LSLV0370S100-4	37	75	91	H	97.80	1554	107	1,447	1244
480	S100	LSLV0450S100-4	45	91	107	H	97.80	1890	107	1,783	1533
480	S100	LSLV0550S100-4	55	110	142	I	98.00	2200	107	2,093	1800
480	S100	LSLV0750S100-4	75	152	169	I	98.00	3000	107	2,893	2488

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◆ **H100+**

Voltage	Series	Model Number	Rated Power (kW)	HD Rated output Current (A)	ND Rated output Current (A)	Frame size	Efficiency (%)	Total Losses (W)	Internal Losses (W)	External (Heat) Losses (W)	Heat Losses in (Kcal)
240	H100	LSLV0055H100-2	5.5	17	22	D	97.50	180	39	141	122
240	H100	LSLV0075H100-2	7.5	24	30	D	97.50	248	39	209	180
240	H100	LSLV0110H100-2	11	32	42	D	97.60	330	39	291	251
240	H100	LSLV0150H100-2	15	46	56	D	97.90	451	39	412	355
240	H100	LSLV0185H100-2	18.5	60	69	F	98.00	600	39	561	483
480	H100	LSLV0055H100-4	5.5	8	12	D	97.70	172	43	129	111
480	H100	LSLV0075H100-4	7.5	12	16	D	97.70	237	43	194	166
480	H100	LSLV0110H100-4	11	15	24	D	97.70	322	43	279	240
480	H100	LSLV0150H100-4	15	22	30	E	97.90	451	43	408	351
480	H100	LSLV0185H100-4	18.5	28	38	E	97.90	615	43	572	492
480	H100	LSLV0220H100-4	22	35	45	F	98.00	740	43	697	599
480	H100	LSLV0300H100-4	30	41	61	F	98.00	880	107	773	665
480	H100	LSLV0370H100-4	37	55	75	G	98.10	1,170	107	1,063	914
480	H100	LSLV0450H100-4	45	67	91	H	98.10	1,443	107	1,336	1,149
480	H100	LSLV0550H100-4	55	81	107	H	98.20	1,710	107	1,603	1,379
480	H100	LSLV0750H100-4	75	106	142	I	98.20	2,090	107	1,983	1,705
480	H100	LSLV0900H100-4	90	136	169	I	98.30	2,775	107	2,668	2,295
480	H100	LSLV1100H100-4	110	169	223	J	98.40	3,960	257	3,703	3,184
480	H100	LSLV1320H100-4	132	195	264	J	98.40	4,752	257	4,495	3,865
480	H100	LSLV1600H100-4	160	255	325	K	98.50	5,600	272	5,328	4,582
480	H100	LSLV1850H100-4	185	303	370	K	98.50	6,475	272	6,203	5,335
480	H100	LSLV2200H100-4	220	345	432	L	98.60	7,480	286	7,194	6,187
480	H100	LSLV2500H100-4	250	375	481	L	98.60	8,500	286	8,214	7,064
480	H100	LSLV3150H100-4	315	478	613	M	98.70	10,395	479	9,916	8,528
480	H100	LSLV3550H100-4	355	541	683	M	98.70	11,715	479	11,236	9,663
480	H100	LSLV4000H100-4	400	591	770	M	98.70	13,200	479	12,721	10,941
480	H100	LSLV5000H100-4	500	740	962	N	98.80	16,000	671	15,329	13,183

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◆ **H100+**

<b>Voltage</b>	<b>Series</b>	<b>Model Number</b>	<b>Rated Power (kW)</b>	<b>HD Rated output Current (A)</b>	<b>ND Rated output Current (A)</b>	<b>Frame size</b>	<b>Efficiency (%)</b>	<b>Total Losses (W)</b>	<b>Internal Losses (W)</b>	<b>External (Heat) Losses (W)</b>	<b>Heat Losses in (Kcal)</b>
600	H100	LSLV0055H100-5	4	6.6	9	B	97.50	180	47	133	114
600	H100	LSLV0075H100-5	5.5	9	12	B	98.11	214	47	167	144
600	H100	LSLV0110H100-5	7.5	12	17	B	97.82	314	47	267	229
600	H100	LSLV0150H100-5	11	17	23	B	97.23	525	47	478	411
600	H100	LSLV0185H100-5	15	23	27	B	97.04	744	47	697	599
600	H100	LSLV0220H100-5	18.5	27	34	C	97.43	845	47	798	687
600	H100	LSLV0300H100-5	22	34	43	C	97.63	961	47	914	786
600	H100	LSLV0370H100-5	30	43	55	D	98.12	1164	55	1,109	954
600	H100	LSLV0450H100-5	37	55	64	E	97.68	1598	55	1,543	1327
600	H100	LSLV0550H100-5	45	64	80	E	97.85	1868	55	1,813	1559
600	H100	LSLV0750H100-5	55	80	104	F	97.90	2255	104	2,151	1850
600	H100	LSLV0900H100-5	75	104	128	F	98.21	2843	104	2,739	2355

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◆ iS7

Voltage	Series	Model Number	Rated Power (kW)	HD Rated output Current (A)	ND Rated output Current (A)	Frame size	Efficiency (%)	Total Losses (W)	Internal Losses (W)	External (Heat) Losses (W)	Heat Losses in (Kcal)
240	IS7	SV0008iS7-2	0.75	5	8	1	96.00	45	12	33	28
240	IS7	SV0015iS7-2	1.5	8	12	1	96.00	90	16	74	64
240	IS7	SV0022iS7-2	2.2	12	16	1	96.10	130	16	114	98
240	IS7	SV0037iS7-2	3.7	16	24	1	96.10	218	16	202	174
240	IS7	SV0055iS7-2	5.5	24	32	2	96.50	303	18	285	245
240	IS7	SV0075iS7-2	7.5	32	46	2	96.60	405	18	387	333
240	IS7	SV0110iS7-2	11	46	60	3	96.60	594	36	558	480
240	IS7	SV0150iS7-2	15	60	74	3	96.70	795	36	759	653
240	IS7	SV0185iS7-2	18.5	74	88	4	96.70	980	36	944	812
240	IS7	SV0220iS7-2	22	88	124	4	96.80	1144	36	1,108	953
240	IS7	SV0300iS7-2	30	116	146	12	96.80	1560	182.5	1,377	1,185
240	IS7	SV0370iS7-2	37	146	180	13	96.90	1887	182.5	1,704	1,466
240	IS7	SV0450iS7-2	45	180	220	13	96.90	2295	182.5	2,112	1,817
240	IS7	SV0550iS7-2	55	220	288	14	97.00	2750	182.5	2,567	2,208
240	IS7	SV0750iS7-2	75	288	345	14	97.10	3675	182.5	3,492	3,004
480	IS7	SV0008iS7-4	0.75	2.5	4	1	96.50	41	12	29	25
480	IS7	SV0015iS7-4	1.5	4	6	1	96.50	83	16	67	57
480	IS7	SV0022iS7-4	2.2	6	8	1	96.70	117	16	101	87
480	IS7	SV0037iS7-4	3.7	8	12	1	96.70	196	16	180	155
480	IS7	SV0055iS7-4	5.5	12	16	2	96.80	286	20	266	229
480	IS7	SV0075iS7-4	7.5	16	24	2	96.80	390	20	370	318
480	IS7	SV0110iS7-4	11	24	30	3	97.00	550	40	510	439
480	IS7	SV0150iS7-4	15	30	39	3	97.00	750	40	710	611
480	IS7	SV0185iS7-4	18.5	39	45	4	97.20	888	40	848	729
480	IS7	SV0220iS7-4	22	45	61	4	97.20	1056	40	1,016	874
480	IS7	SV0300iS7-4	30	61	75	5	97.40	1380	100	1,280	1,101
480	IS7	SV0370iS7-4	37	75	91	5	97.40	1702	100	1,602	1,378
480	IS7	SV0450iS7-4	45	91	110	5	97.40	2070	100	1,970	1,694
480	IS7	SV0550iS7-4	55	110	152	6	97.50	2475	100	2,375	2,043
480	IS7	SV0750iS7-4	75	152	183	6	97.00	3750	100	3,650	3,139
480	IS7	SV0900iS7-4	90	183	223	7	97.50	4050	193	3,857	3,317
480	IS7	SV1100iS7-4	110	223	264	7	98.00	4400	193	4,207	3,618
480	IS7	SV1320iS7-4	132	264	325	8	98.10	5148	193	4,955	4,261
480	IS7	SV1600iS7-4	160	325	370	8	98.10	6240	193	6,047	5,200
480	IS7	SV1850iS7-4	185	370	432	9	98.30	6845	268	6,577	5,656
480	IS7	SV2200iS7-4	220	432	547	9	98.30	8140	268	7,872	6,770
480	IS7	SV2800iS7-4	280	547	613	10	98.40	10080	268	9,812	8,438
480	IS7	SV3150iS7-4	315	613	731	11	98.40	11340	268	11,072	9,522
480	IS7	SV3750iS7-4	375	731	877	11	98.50	13125	268	12,857	11,057