

Drive Efficiency data of LSIS inverter series.

[Test Condition]

1. Operation at 60Hz, 50Hz
2. HD, ND Load 25, 50, 75, 100% (M-G Set load, Corresponding motor to drive)
3. Operation at room temperature
4. Carrier Frequency (Default, Max value)

Product	Capacity /Load	fc(default)
iS7	0.75 ~ 22	5
	30 ~ 45	5
	55 ~ 75	5
	90 ~ 110	3
	132 ~ 160	3
	185 ~ 220	2
	280 ~ 375	2
S100	HD	3
	ND	2
H100	All	3

* The test was performed in LS laboratory.

* The result can be measured differently according to test conditions such as AC Reactor presence / input line length / input impedance and transformer capacity.

* Disclaimer of liability

LSIS has reviewed the information in this publication to ensure consistency. However, LSIS cannot guarantee full consistency, nor be responsible for any damages or compensation, since variance cannot be precluded entirely.

Technical Report

iS7 Series 200V Class

Model Number : SV□□□□iS7-2

Rated current	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
HD	5	8	12	16	24	32	46	60	74	88	116	116	180	220	288
ND	8	12	16	24	32	46	60	74	88	124	146	146	220	228	345

iS7 230V, 60Hz, HD

PF	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
Input	0.93	0.93	0.93	0.93	0.93	0.92	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93

Efficiency @ Efficiency @ fc(default)

Load	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
25%	78.8	79.2	80.09	90.0	96.2	83.41	96.2	96.3	96.3	96.5	96.5	97.0	82.49	96.7	97.1
50%	94.4	94.9	95.91	96.4	96.5	96.86	96.6	96.7	96.8	96.96	96.86	97.5	97.47	97.5	97.5
75%	95.1	95.6	96.63	96.6	96.7	96.99	96.9	96.9	97.0	97.18	97.35	97.1	97.60	97.3	97.5
100%	95.2	95.7	96.71	96.4	96.5	96.85	96.9	96.9	97.0	97.17	97.29	96.9	97.36	97.0	97.1

iS7 230V, 60Hz, ND

PF	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
Input	0.93	0.93	0.94	0.93	0.93	0.94	0.93	0.93	0.93	0.94	0.93	0.93	0.93	0.93	0.93

Efficiency @ Efficiency @ fc(default)

Load	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
25%	80.8	80.8	81.44	96.0	96.1	96.48	96.1	96.3	96.4	80.19	96.5	95.8	82.36	96.8	97.0
50%	94.3	95.2	96.57	96.0	96.1	97.00	96.3	96.5	96.5	96.87	96.99	96.2	97.62	97.0	97.2
75%	95.1	95.2	96.70	96.0	96.1	96.83	96.6	96.6	96.7	97.14	97.35	96.6	97.27	97.3	97.4
100%	95.8	95.9	96.62	96.2	96.3	96.53	96.8	96.8	96.9	97.02	97.1	97.0	97.40	97.5	97.2

Technical Report

iS7 Series 400V Class

Model Number : SV□□□□iS7-4

Rated current	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
HD	2.5	4	6	8	12	16	24	30	39	45	61	75	91	110	152
ND	4	6	8	12	16	24	30	39	45	61	75	91	110	152	183

iS7 480V, 60Hz, HD

PF	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
Input	0.91	0.93	0.93	0.92	0.93	0.90	0.91	0.92	0.91	0.93	0.91	0.92	0.94	0.95	0.95

Efficiency @ fc(default)

Load	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
25%	91.4	94.30	96.14	96.84	96.25	96.60	97.19	97.28	96.79	93.90	97.55	97.04	97.22	97.38	97.55
50%	92.9	96.22	94.63	95.32	97.19	97.54	96.51	96.52	97.00	95.64	98.29	97.30	97.44	97.56	98.29
75%	94.4	96.22	96.55	97.26	96.51	96.86	97.12	97.3	97.21	95.85	98.06	97.56	97.66	97.74	98.06
100%	95.96	96.48	96.81	97.52	97.12	97.47	97.32	97.67	97.42	97.63	98.05	97.83	97.88	97.91	98.05

iS7 480V, 60Hz, ND

PF	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
Input	0.92	0.91	0.93	0.93	0.93	0.93	0.92	0.95	0.94	0.94	0.94	0.94	0.94	0.95	0.95

Efficiency @ fc(default)

Load	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
25%	94.6	94.9	96.0	97.0	96.4	94.08	96.6	97.04	96.8	97.07	97.69	96.9	97.1	97.3	97.69
50%	95.4	95.6	96.4	97.25	96.7	97.44	96.9	97.66	96.9	97.70	98.38	97.1	97.2	97.4	98.13
75%	96.1	96.3	96.8	97.61	97.0	97.58	97.2	97.68	97.1	97.74	98.09	97.3	97.4	97.5	98.12
100%	96.91	96.98	97.27	97.69	97.21	97.47	97.41	97.67	97.30	97.48	98.05	97.56	97.60	97.65	97.78

Technical Report

iS7 Series 400V Class

Model Number : SV□□□□iS7-4

Rated current	90kW	110kW	132kW	160kW	185kW	220kW	280kW	315kW	375kW
HD	183	223	264	325	370	432	547	613	731
ND	223	264	325	370	432	547	613	731	877

iS7 480V, 60Hz, HD

PF	90kW	110kW	132kW	160kW	185kW	220kW	280kW	315kW	375kW
Input	0.94	0.93	0.95	0.95	0.94	0.94	0.92	0.94	0.92

Efficiency @ fc(default)

Load	90kW	110kW	132kW	160kW	185kW	220kW	280kW	315kW	375kW
25%	97.67	97.82	97.94	98.24	98.11	95.02	93.57	98.22	90.81
50%	97.88	97.99	98.08	98.64	98.25	98.52	98.55	98.31	98.63
75%	98.09	98.16	98.22	98.63	98.39	99.20	98.74	98.39	98.62
100%	98.30	98.34	98.37	98.51	98.54	98.68	98.48	98.47	98.56

iS7 480V, 60Hz, ND

PF	90kW	110kW	132kW	160kW	185kW	220kW	280kW	315kW	375kW
Input	0.92	0.93	0.93	0.93	0.94	0.94	0.92	0.94	0.93

Efficiency @ fc(default)

Load	90kW	110kW	132kW	160kW	185kW	220kW	280kW	315kW	375kW
25%	97.69	97.8	97.9	98.0	98.2	95.10	95.04	98.7	98.15
50%	98.13	98.0	98.1	98.2	98.3	99.09	98.65	98.7	98.80
75%	98.12	98.2	98.2	98.3	98.4	98.59	98.58	98.8	98.68
100%	97.78	98.34	98.37	98.39	98.51	98.51	98.52	98.5	98.59

Technical Report

iS7 Series 200V Class

Model Number : SV□□□□iS7-2

Rated current	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
HD	5	8	12	16	24	32	46	60	74	88	116	116	180	220	288
ND	8	12	16	24	32	46	60	74	88	124	146	146	220	228	345

iS7 230V, 50Hz, HD

PF	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
Input	0.90	0.91	0.91	0.92	0.92	0.91	0.92	0.92	0.92	0.92	0.93	0.93	0.94	0.94	0.94

Efficiency @ fc(default)

Load	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
25%	80.69	81.13	82	95.12	95.52	96.50	95.63	95.96	96.14	95.87	95.62	95.18	96.53	95.80	96.14
50%	91.90	93.41	94.49	95.53	95.83	96.73	95.94	96.19	96.33	96.02	96.20	95.65	96.92	96.12	96.37
75%	93.40	94.41	96.3	95.94	96.15	96.82	96.26	96.43	96.51	96.18	96.79	96.12	97.39	96.44	96.61
100%	94.9	95.4	96.46	96.4	96.5	96.78	96.6	96.7	96.7	96.89	97.03	96.6	97.08	96.8	96.8

iS7 230V, 50Hz, ND

PF	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
Input	0.91	0.91	0.93	0.92	0.93	0.93	0.93	0.93	0.93	0.94	0.93	0.94	0.94	0.94	0.94

Efficiency @ fc(default)

Load	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
25%	82.34	82.40	83	95.35	95.55	96.08	95.88	96.06	96.18	96.08	95.50	95.54	96.76	96.79	97.01
50%	94.12	94.33	96.08	95.63	95.78	96.87	96.11	96.25	96.34	96.2	95.97	95.93	97.08	97.03	97.20
75%	94.88	95.02	96.48	95.91	96.01	96.72	96.35	96.43	96.49	96.9	96.94	96.32	97.17	97.26	97.40
100%	95.6	95.7	96.42	96.2	96.2	96.47	96.6	96.6	96.7	96.81	96.97	96.7	97.11	97.5	97.2

Technical Report

iS7 Series 400V Class

Model Number : SV□□□□iS7-4

Rated current	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
HD	2.5	4	6	8	12	16	24	30	39	45	61	75	91	110	152
ND	4	6	8	12	16	24	30	39	45	61	75	91	110	152	183

iS7 480V, 50Hz, HD

PF	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
Input	0.91	0.93	0.93	0.92	0.93	0.90	0.91	0.92	0.91	0.93	0.91	0.92	0.94	0.95	0.95

Efficiency @ fc(default)

Load	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
25%	88.66	89.14	89.44	90.1	95.80	95.99	95.72	95.46	96.65	95.2	96.60	96.80	95.78	97.14	96.29
50%	92.60	94.11	95.08	94.75	96.15	96.25	96.07	95.72	96.86	97.28	96.92	97.06	97.20	97.32	97.85
75%	94.10	95.13	95.78	96.84	96.50	97.05	96.42	96.97	97.07	97.58	97.75	97.32	97.42	97.49	97.92
100%	95.63	96.15	96.48	97.19	96.86	97.21	96.78	97.13	97.28	97.49	98.04	97.59	97.63	97.67	97.85

iS7 480V, 50Hz, ND

PF	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
Input	0.92	0.91	0.93	0.93	0.93	0.93	0.92	0.95	0.94	0.94	0.94	0.94	0.94	0.95	0.95

Efficiency @ fc(default)

Load	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
25%	91.84	91.91	92.18	92.31	92.33	92.58	96.16	96.38	96.62	96.7	97.18	96.83	96.99	97.18	97.32
50%	95.13	95.34	96.19	96.86	96.35	97	96.41	96.59	96.80	97.46	97.44	97.05	97.17	97.31	97.95
75%	95.90	96.04	96.61	97.36	96.60	97.19	96.67	97.21	96.98	97.54	98.04	97.27	97.35	97.44	97.90
100%	96.67	96.74	97.03	97.45	96.86	97.12	96.93	97.19	97.15	97.33	97.85	97.48	97.52	97.57	97.90

Technical Report

S100 Series 200V Class

Model Number : LSLV□□□□S100-□

Rated current	0.4kW (1ø)*	0.8kW (1ø)*	1.5kW (1ø)	2.2kW (1ø)	0.4kW (3ø)	0.8kW (3ø)	1.5kW (3ø)	2.2kW (3ø)	3.7kW (3ø)	4.0kW (3ø)	5.5kW (3ø)	7.5kW (3ø)	11kW (3ø)	15kW (3ø)
HD	2.5	5	8	11	2.5	5	8	11	16	17	24	32	46	60
ND	3.1	6	9.6	12	3.1	6	9.6	12	18	18	30	40	56	69

* 1ø = 1phase, 3ø = 3phase

S100 240V, 60Hz, HD

PF	0.4kW (1ø)*	0.8kW (1ø)*	1.5kW (1ø)	2.2kW (1ø)	0.4kW (3ø)	0.8kW (3ø)	1.5kW (3ø)	2.2kW (3ø)	3.7kW (3ø)	4.0kW (3ø)	5.5kW (3ø)	7.5kW (3ø)	11kW (3ø)	15kW (3ø)
Input	0.90	0.91	0.95	0.95	0.94	0.93	0.93	0.95	0.95	0.95	0.94	0.93	0.94	0.93

Efficiency @ fc(default)

Load	0.4kW (1ø)*	0.8kW (1ø)*	1.5kW (1ø)	2.2kW (1ø)	0.4kW (3ø)	0.8kW (3ø)	1.5kW (3ø)	2.2kW (3ø)	3.7kW (3ø)	4.0kW (3ø)	5.5kW (3ø)	7.5kW (3ø)	11kW (3ø)	15kW (3ø)
25%	83.16	90.28	84.18	84.77	85.04	84.75	93.00	85.39	95.32	86.14	94.76	87.07	91.86	87.96
50%	85.86	91.77	95.98	96.67	87.90	96.32	94.07	96.41	95.81	96.92	95.44	97.49	97.96	97.68
75%	95.2	93.28	96.50	96.86	90.85	96.93	95.15	97.33	96.30	97.38	96.12	97.61	98.10	97.78
100%	96.12	94.82	96.39	96.64	93.91	97.06	96.24	97.34	96.80	97.33	96.81	97.52	97.91	97.73

S100 240V, 60Hz, ND

PF	0.4kW (1ø)*	0.8kW (1ø)*	1.5kW (1ø)	2.2kW (1ø)	0.4kW (3ø)	0.8kW (3ø)	1.5kW (3ø)	2.2kW (3ø)	3.7kW (3ø)	4.0kW (3ø)	5.5kW (3ø)	7.5kW (3ø)	11kW (3ø)	15kW (3ø)
Input	0.92	0.91	0.95	0.95	0.91	0.92	0.92	0.91	0.94	0.93	0.92	0.94	0.95	0.94

Efficiency @ fc(default)

Load	0.4kW (1ø)*	0.8kW (1ø)*	1.5kW (1ø)	2.2kW (1ø)	0.4kW (3ø)	0.8kW (3ø)	1.5kW (3ø)	2.2kW (3ø)	3.7kW (3ø)	4.0kW (3ø)	5.5kW (3ø)	7.5kW (3ø)	11kW (3ø)	15kW (3ø)
25%	84.9	84.5	85.26	85.98	84.0	85.39	85.8	86.42	85.8	86.25	86.3	96.04	93.12	89.42
50%	86.27	93.9	96.73	96.86	92.6	96.92	95.2	97.02	96.1	97.27	97.3	97.70	98.07	97.73
75%	96.14	94.8	96.65	96.94	94.1	97.21	95.9	97.44	96.6	97.55	97.6	97.65	98.03	98.01
100%	96.37	95.58	96.42	96.62	95.0	97.25	96.67	97.42	97.05	97.4	97.51	97.48	97.97	97.52

Technical Report

S100 Series 400V Class

Model Number : LSLV□□□□S100-□

Rated current	0.4 kW	0.8 kW	1.5 kW	2.2 kW	3.7 kW	4.0 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
HD	1.3	2.5	4	5.5	8	9	12	16	24	30	39	45	61	75	91	110	152
ND	2	3.1	5.1	6.9	10	10	16	23	30	38	44	58	75	91	107	142	169

S100 480V, 60Hz, HD

PF	0.4 kW	0.8 kW	1.5 kW	2.2 kW	3.7 kW	4.0 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
Input	0.91	0.90	0.91	0.91	0.92	0.93	0.93	0.93	0.93	0.94	0.93	0.93	0.93	0.94	0.94	0.94	0.94

Efficiency @ fc(default)

Load	0.4 kW	0.8 kW	1.5 kW	2.2 kW	3.7 kW	4.0 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
25%	85.74	81.31	93.73	85.25	96.09	86.31	95.22	87.94	97.06	97.16	97.59	98.00	90.55	97.50	88.35	97.75	98.21
50%	88.62	96.50	94.80	96.93	96.64	97.77	95.97	97.83	97.44	98.13	97.81	98.50	98.36	97.79	98.41	97.94	98.67
75%	91.59	97.57	95.89	97.93	97.19	98.21	96.73	98.20	97.82	98.58	98.04	98.50	98.44	98.07	98.49	98.13	98.65
100%	94.67	97.85	96.99	97.10	97.74	98.30	97.49	98.26	98.20	98.59	98.27	98.50	98.56	98.35	98.64	98.32	98.51

S100 480V, 60Hz, ND

PF	0.4 kW	0.8 kW	1.5 kW	2.2 kW	3.7 kW	4.0 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
Input	0.90	0.91	0.91	0.92	0.92	0.93	0.92	0.93	0.93	0.93	0.94	0.93	0.94	0.94	0.93	0.94	0.93

Efficiency @ fc(default)

Load	0.4 kW	0.8 kW	1.5 kW	2.2 kW	3.7 kW	4.0 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
25%	81.5	82.81	87.1	86.85	87.3	87.76	90.9	91.1	91.2	91.46	97.7	98.40	88.92	97.8	91.96	98.1	98.56
50%	93.4	97.44	96.0	97.96	96.9	98.17	96.7	98.1	97.9	98.77	97.9	98.60	98.68	98.0	98.83	98.2	98.70
75%	94.9	97.93	96.7	98.24	97.4	98.43	97.2	98.45	98.2	98.72	98.1	98.60	98.63	98.3	98.77	98.4	98.74
100%	96.51	98.10	97.10	97.26	97.94	97.06	97.78	98.34	98.50	98.78	98.31	98.50	98.63	98.49	98.72	98.51	98.65

Technical Report

S100 Series 200V Class

Model Number : LSLV□□□□S100-□

Rated current	0.4kW (1ø)*	0.8kW (1ø)*	1.5kW (1ø)	2.2kW (1ø)	0.4kW (3ø)	0.8kW (3ø)	1.5kW (3ø)	2.2kW (3ø)	3.7kW (3ø)	4.0kW (3ø)	5.5kW (3ø)	7.5kW (3ø)	11kW (3ø)	15kW (3ø)
HD	2.5	5	8	11	2.5	5	8	11	16	17	24	32	46	60
ND	3.1	6	9.6	12	3.1	6	9.6	12	18	18	30	40	56	69

S100 240V, 50Hz, HD

PF	0.4kW (1ø)*	0.8kW (1ø)*	1.5kW (1ø)	2.2kW (1ø)	0.4kW (3ø)	0.8kW (3ø)	1.5kW (3ø)	2.2kW (3ø)	3.7kW (3ø)	4.0kW (3ø)	5.5kW (3ø)	7.5kW (3ø)	11kW (3ø)	15kW (3ø)
Input	0.90	0.91	0.95	0.95	0.94	0.93	0.93	0.95	0.95	0.95	0.94	0.93	0.94	0.93

Efficiency @ fc(default)

Load	0.4kW (1ø)*	0.8kW (1ø)*	1.5kW (1ø)	2.2kW (1ø)	0.4kW (3ø)	0.8kW (3ø)	1.5kW (3ø)	2.2kW (3ø)	3.7kW (3ø)	4.0kW (3ø)	5.5kW (3ø)	7.5kW (3ø)	11kW (3ø)	15kW (3ø)
25%	80.63	81.90	81.82	83.25	84.99	82.85	82.44	83.39	82.82	83.25	89.57	84.88	90.21	85.76
50%	91.01	91.80	95.59	95.88	87.85	96.06	93.83	94.62	95.67	96.19	95.30	97.20	97.85	97.48
75%	93.97	93.31	96.41	96.80	90.80	96.82	94.90	96.98	96.16	97.05	95.98	97.41	97.83	97.43
100%	94.26	94.85	96.42	96.65	93.85	94.00	95.99	97.09	96.66	97.16	96.67	97.36	97.80	97.41

S100 240V, 50Hz, ND

PF	0.4kW (1ø)*	0.8kW (1ø)*	1.5kW (1ø)	2.2kW (1ø)	0.4kW (3ø)	0.8kW (3ø)	1.5kW (3ø)	2.2kW (3ø)	3.7kW (3ø)	4.0kW (3ø)	5.5kW (3ø)	7.5kW (3ø)	11kW (3ø)	15kW (3ø)
Input	0.92	0.91	0.95	0.95	0.91	0.92	0.92	0.91	0.94	0.93	0.92	0.94	0.95	0.94

Efficiency @ fc(default)

Load	0.4kW (1ø)*	0.8kW (1ø)*	1.5kW (1ø)	2.2kW (1ø)	0.4kW (3ø)	0.8kW (3ø)	1.5kW (3ø)	2.2kW (3ø)	3.7kW (3ø)	4.0kW (3ø)	5.5kW (3ø)	7.5kW (3ø)	11kW (3ø)	15kW (3ø)
25%	84.07	83.55	83.11	84.28	90.97	83.65	83.97	84.62	84.70	85.10	95.28	94.82	91.60	87.31
50%	85.42	93.84	96.38	96.41	92.47	96.65	94.99	96.40	95.92	96.78	95.78	97.52	97.96	97.51
75%	95.84	94.66	96.55	96.81	94.00	97.04	95.73	97.19	96.38	97.28	96.28	97.48	98.00	97.58
100%	94.30	95.49	96.32	96.65	94.85	94.13	96.48	97.23	96.84	97.10	96.78	97.29	97.89	97.65

Technical Report

S100 Series 400V Class

Model Number : LSLV□□□□S100-□

Rated current	0.4 kW	0.8 kW	1.5 kW	2.2 kW	3.7 kW	4.0 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
HD	1.3	2.5	4	5.5	8	9	12	16	24	30	39	45	61	75	91	110	152
ND	2	3.1	5.1	6.9	10	10	16	23	30	38	44	58	75	91	107	142	169

S100 480V, 50Hz, HD

PF	0.4 kW	0.8 kW	1.5 kW	2.2 kW	3.7 kW	4.0 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
Input	0.91	0.90	0.91	0.91	0.92	0.93	0.93	0.93	0.93	0.94	0.93	0.93	0.93	0.94	0.94	0.94	0.94

Efficiency @ fc(default)

Load	0.4 kW	0.8 kW	1.5 kW	2.2 kW	3.7 kW	4.0 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
25%	85.53	79.69	82.48	83.43	83.76	84.24	85.13	85.80	88.76	89.11	97.59	97.00	85.51	97.21	85.41	97.65	97.77
50%	88.40	96.19	94.58	96.33	96.47	97.28	95.88	97.48	97.05	97.96	97.81	98.60	97.93	97.49	98.17	97.84	98.55
75%	91.37	97.26	95.66	97.56	97.02	98.02	96.63	97.97	97.43	98.23	98.04	98.50	98.24	97.77	98.36	98.03	98.51
100%	94.44	97.61	96.76	97.87	97.47	97.13	97.39	98.16	97.82	98.20	98.27	98.50	98.35	98.06	98.34	98.22	98.41

S100 480V, 50Hz, ND

PF	0.4 kW	0.8 kW	1.5 kW	2.2 kW	3.7 kW	4.0 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
Input	0.90	0.91	0.91	0.92	0.92	0.93	0.92	0.93	0.93	0.93	0.94	0.93	0.94	0.94	0.93	0.94	0.93

Efficiency @ fc(default)

Load	0.4 kW	0.8 kW	1.5 kW	2.2 kW	3.7 kW	4.0 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
25%	79.68	81.00	84.40	85.06	86.12	86.57	88.13	88.64	90.74	91.00	97.73	98.50	88.51	97.54	88.07	97.94	98.21
50%	93.26	97.13	95.84	97.50	96.76	97.87	96.54	98.05	97.61	98.21	97.92	98.80	98.39	97.77	98.54	98.08	98.55
75%	94.80	97.72	96.59	98.03	97.27	98.25	97.10	98.27	97.89	98.74	98.12	98.50	98.44	98.00	98.52	98.22	98.58
100%	96.37	97.96	97.34	98.10	97.38	97.21	97.66	98.22	98.17	98.45	98.31	98.50	98.46	98.24	98.47	98.36	98.50

Technical Report

H100 Series 200V Class

Model Number : LSLV□□□□H100-2

Rated current	5.5kW	7.5kW	11kW	15kW	18.5kW
ND	22	30	42	56	69

H100 240V, 60Hz, ND

PF	5.5kW	7.5kW	11kW	15kW	18.5kW
Input	0.91	0.90	0.91	0.90	0.92

Efficiency @ fc(default)

Load	5.5kW	7.5kW	11kW	15kW	18.5kW
25%	92.0	92.53	92.53	88.38	97.5
50%	96.4	97.60	98.06	97.85	97.7
75%	96.9	97.72	98.02	97.65	97.8
100%	97.37	97.56	97.88	97.42	98.00

H100 240V, 50Hz, ND

PF	5.5kW	7.5kW	11kW	15kW	18.5kW
Input	0.91	0.90	0.90	0.90	0.92

Efficiency @ fc(default)

Load	5.5kW	7.5kW	11kW	15kW	18.5kW
25%	91.27	89.01	91.75	82.94	96.50
50%	96.01	97.35	97.91	97.06	96.67
75%	96.51	97.69	97.84	97.20	96.84
100%	97.01	97.52	97.76	97.01	97.01

Technical Report

H100 Series 400V Class

Model Number : LSLV□□□□H100-4

Rated current	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW	55kW	75kW	90kW
ND	12	16	24	30	38	45	61	75	91	107	142	169

H100 480V, 60Hz, ND

PF	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW	55kW	75kW	90kW
Input	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.94	0.94	0.93	0.94

Efficiency @ fc(default)

Load	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW	55kW	75kW	90kW
25%	88.0	88.66	90.9	91.21	97.70	97.4	85.85	97.3	97.1	97.4	97.92	97.92
50%	95.6	98.05	97.1	98.25	98.37	97.6	97.98	97.5	97.3	97.6	98.51	98.51
75%	96.4	98.25	97.5	98.73	98.43	97.8	98.24	97.8	97.5	97.8	98.48	98.48
100%	97.11	98.15	97.88	98.68	98.36	98.00	98.13	98.10	97.78	98.01	98.28	98.28

H100 480V, 50Hz, ND

PF	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW	55kW	75kW	90kW
Input	0.90	0.91	0.92	0.93	0.93	0.93	0.92	0.93	0.92	0.93	0.93	0.93

Efficiency @ fc(default)

Load	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW	55kW	75kW	90kW
25%	85.54	86.21	85.87	83.85	97.62	97.43	82.29	97.25	97.08	97.44	97.78	97.17
50%	95.60	97.73	97.12	97.48	98.36	97.62	97.74	97.53	97.31	97.63	97.92	98.37
75%	96.36	98.08	97.50	97.83	98.16	97.81	97.85	97.82	97.54	97.82	98.06	98.29
100%	97.11	98.00	97.88	97.98	98.09	98.00	97.77	98.10	97.78	98.01	98.20	98.12