

## 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
G100	HD	3
	ND	2
M100	HD	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

LS Electric has reviewed the information in this publication to ensure consistency. However, LS Electric 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 @ 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 @ 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□□□□S100-2

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□□□□S100-4

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□□□□S100-2

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□□□□S100-4

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

# Technical Report

## G100 Series 200V Class

Model Number : LSLV□□□□G100-2

Rated current	0.4 kW	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW
HD	1.3	2.5	4.0	5.5	9.0	12.0	16.0
ND	2.0	3.1	5.1	6.9	10.0	16.0	23.0

### *G100 220V, 60Hz, HD*

PF	0.4 kW	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW
Input	0.90	0.91	0.95	0.95	0.94	0.93	0.93

### Efficiency @ fc(default)

Load	0.4 kW	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW
50%	92.4	96.1	95.6	95.8	95.5	96.0	96.6
75%	95.8	96.7	96.6	96.4	96.8	96.8	96.8
100%	96.3	96.8	96.7	96.4	96.8	96.9	96.7

### *G100 220V, 60Hz, ND*

PF	0.4 kW	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW
Input	0.92	0.91	0.95	0.95	0.91	0.92	0.92

### Efficiency @ fc(default)

Load	0.4 kW	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW
50%	-	96.2	95.2	95.5	95.0	95.3	95.3
75%	95.1	96.4	96.1	96.1	96.4	95.4	95.1
100%	95.9	96.4	96.1	96.0	96.0	95.1	94.7

# Technical Report

## G100 Series 400V Class

Model Number : LSLV□□□□G100-4

Rated current	0.4 kW	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW
HD	1.3	2.5	4.0	5.5	9.0	12.0	16.0
ND	2.0	3.1	5.1	6.9	10.0	16.0	23.0

### *G100 440V, 60Hz, HD*

PF	0.4 kW	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW
Input	0.91	0.90	0.91	0.91	0.92	0.93	0.93

### Efficiency @ fc(default)

Load	0.4 kW	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW
50%	92.9	96.2	94.6	95.3	97.2	97.5	96.5
75%	94.4	96.2	96.6	97.3	96.5	96.9	97.1
100%	96.0	96.5	96.8	97.5	97.1	97.5	97.3

### *G100 440V, 60Hz, ND*

PF	0.4 kW	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW
Input	0.90	0.91	0.91	0.92	0.92	0.93	0.92

### Efficiency @ fc(default)

Load	0.4 kW	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW
50%	92.3	96.2	94.5	96.8	95.6	96.7	97.0
75%	95.7	96.9	96.4	97.4	96.6	97.1	97.2
100%	96.5	97.1	96.9	97.4	96.9	97.2	97.0

# Technical Report

## G100 Series 200V Class

Model Number : LSLV□□□□G100-2

Rated current	0.4 kW	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW
HD	1.3	2.5	4.0	5.5	9.0	12.0	16.0
ND	2.0	3.1	5.1	6.9	10.0	16.0	23.0

### *G100 220V, 50Hz, HD*

PF	0.4 kW	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW
Input	0.90	0.91	0.95	0.95	0.94	0.93	0.93

### Efficiency @ fc(default)

Load	0.4 kW	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW
50%	90.0	95.0	94.4	94.3	94.3	95.1	95.6
75%	95.1	95.6	96.2	96.0	96.4	96.4	96.4
100%	95.9	95.7	96.4	96.2	96.5	96.6	96.4

### *G100 220V, 50Hz, ND*

PF	0.4 kW	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW
Input	0.90	0.91	0.91	0.92	0.92	0.93	0.92

### Efficiency @ fc(default)

Load	0.4 kW	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW
50%	-	95.7	94.0	94.5	94.0	94.5	95.0
75%	94.5	96.3	95.7	95.8	95.5	95.2	95.0
100%	95.5	96.4	95.9	95.9	96.0	95.0	94.7

# Technical Report

## G100 Series 400V Class

Model Number : LSLV□□□□G100-4

Rated current	0.4 kW	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW
HD	1.3	2.5	4.0	5.5	9.0	12.0	16.0
ND	2.0	3.1	5.1	6.9	10.0	16.0	23.0

### *G100 440V, 50Hz, HD*

PF	0.4 kW	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW
Input	0.91	0.90	0.91	0.91	0.92	0.93	0.93

### Efficiency @ fc(default)

Load	0.4 kW	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW
50%	-	93.3	95.4	94.5	95.6	91.5	95.9
75%	93.7	95.7	97.0	96.8	97.3	96.0	97.1
100%	95.2	96.4	97.2	97.2	97.4	96.5	97.2

### *G100 440V, 50Hz, ND*

PF	0.4 kW	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW
Input	0.90	0.91	0.91	0.92	0.92	0.93	0.92

### Efficiency @ fc(default)

Load	0.4 kW	0.75 kW	1.5 kW	2.2 kW	3.7 kW	5.5 kW	7.5 kW
50%	90.4	95.5	92.5	96.3	94.6	96.0	96.7
75%	94.9	96.4	95.7	97.1	96.2	96.9	97.0
100%	96.0	96.7	96.4	97.3	96.5	97.0	96.9



# Technical Report

## M100 Series 200V Class

Model Number : LSLV□□□□M100-1

Rated current	0.1 kW	0.2 kW	0.4 kW	0.8 kW	1.5 kW	2.2 kW
HD	0.8	1.4	2.4	4.2	7.5	10

### *M100 220V, 60Hz, HD*

PF	0.1 kW	0.2 kW	0.4 kW	0.8 kW	1.5 kW	2.2 kW
Input	0.86	0.89	0.89	0.90	0.92	0.93

### Efficiency @ fc(default)

Load	0.1 kW	0.2 kW	0.4 kW	0.8 kW	1.5 kW	2.2 kW
50%	-	89.3	88.5	95.6	96.4	96.3
75%	88.5	94.4	95.2	97.1	96.9	97.2
100%	94.9	96.0	96.7	97.0	97.1	97.1

### *M100 220V, 50Hz, HD*

PF	0.1 kW	0.2 kW	0.4 kW	0.8 kW	1.5 kW	2.2 kW
Input	0.88	0.90	0.89	0.89	0.91	0.92

### Efficiency @ fc(default)

Load	0.1 kW	0.2 kW	0.4 kW	0.8 kW	1.5 kW	2.2 kW
50%	-	88.6	88.1	95.6	96.0	94.1
75%	87.5	95.1	95.3	96.9	96.9	97.0
100%	94.4	95.8	96.6	96.9	96.9	97.0

## Heat loss data of LSIS inverter series.

### **Total losses**

Capacity(kW) x (1-Efficiency/100) x 1000 = W

ex) 0.4kW x (1- 95.3/100) x 1000 = 18.8W

Total losses = Internal loss + External loss

### **Internal losses**

Based on design standard such as SMPS Rated Capacity, Fan and so forth

### **External(Heat) losses**

1wh = 3,600J, 1kcal = 4,186 J

Efficiency= Output/(Output+Loss)\*100=Output/Input\*100

Loss\*0.9=Heat Loss

-> Other Loss 0.1

$\Sigma$ (The number of installed drive at each capacity\*Heat) = Total amount of Heat

# Technical Report

## Watt loss iS7 Series(60Hz)

Voltage	Model Number	Rated Power (kW)	HD				ND			
			Rated Output Current (A)	Total Losses (W)	Internal Losses (W)	Heat Losses (Kcal)	Rated Output Current (A)	Total Losses (W)	Internal Losses (W)	Heat Losses (Kcal)
230	SV0008iS7-2	0.75	5	36	12	21	8	50	12	33
230	SV0015iS7-2	1.5	8	65	16	42	12	92	16	65
230	SV0022iS7-2	2.2	12	72	16	48	16	99	16	72
230	SV0037iS7-2	3.7	16	132	16	100	24	208	16	165
230	SV0055iS7-2	5.5	24	191	18	148	32	271	18	218
230	SV0075iS7-2	7.5	32	236	18	188	46	374	18	306
230	SV0110iS7-2	11	46	345	36	266	60	461	36	365
230	SV0150iS7-2	15	60	458	36	363	74	586	36	473
230	SV0185iS7-2	18.5	74	557	36	448	88	691	36	563
230	SV0220iS7-2	22	88	621	36	503	124	924	36	764
230	SV0300iS7-2	30	116	812	182.5	542	146	1140	182.5	823
230	SV0370iS7-2	37	146	1156	182.5	837	180	1366	182.5	1018
230	SV0450iS7-2	45	180	1190	182.5	867	220	1430	182.5	1073
230	SV0550iS7-2	55	220	1632	182.5	1247	288	1800	182.5	1391
230	SV0750iS7-2	75	288	2161	182.5	1702	345	2516	182.5	1697
480	SV0008iS7-4	0.75	2.5	30	12.0	16	4	37	12.0	22
480	SV0015iS7-4	1.5	4	53	16.0	32	6	68	16.0	45
480	SV0022iS7-4	2.2	6	70	16.0	47	8	80	16.0	55
480	SV0037iS7-4	3.7	8	92	16	65	12	128	16	96
480	SV0055iS7-4	5.5	12	158	20	119	16	205	20	159
480	SV0075iS7-4	7.5	16	190	20	146	24	285	20	228
480	SV0110iS7-4	11	24	295	40	219	30	356	40	272
480	SV0150iS7-4	15	30	349	40	266	39	454	40	356
480	SV0185iS7-4	18.5	39	478	40	376	45	576	40	461
480	SV0220iS7-4	22	45	521	40	414	61	752	40	612
480	SV0300iS7-4	30	61	582	100	415	75	716	100	530
480	SV0370iS7-4	37	75	804	100	605	91	1094	100	855
480	SV0450iS7-4	45	91	956	100	736	110	1304	100	1036
480	SV0550iS7-4	55	110	1147	100	900	152	1786	100	1450
480	SV0750iS7-4	75	152	1430	100	1144	183	2005	100	1638
480	SV0900iS7-4	90	183	1531	193	1151	223	1824	193	1402
480	SV1100iS7-4	110	223	1829	193	1407	264	2128	193	1664
480	SV1320iS7-4	132	264	2157	193	1689	325	2614	193	2082
480	SV1600iS7-4	160	325	2384	193	1884	370	2714	193	2168
480	SV1850iS7-4	185	370	2706	268	2097	432	3478	268	2760
480	SV2200iS7-4	220	432	2904	268	2267	547	4151	268	3339
480	SV2800iS7-4	280	547	4270	268	3442	613	4644	268	3763
480	SV3150iS7-4	315	613	4810	268	3906	731	5600	268	3390
480	SV3750iS7-4	375	731	5411	268	4423	877	6344	268	3832

# Technical Report

## Watt loss S100 Series(60Hz)

Vol.	Model Number	Rated Power (kW)	HD				ND			
			Rated Output Current(A)	Total Losses(W)	Internal Losses(W)	Heat Losses (Kcal)	Rated Output Current(A)	Total Losses(W)	Internal Losses(W)	Heat Losses (Kcal)
240	LSLV0004S100-1	0.4	2.5	16	13	3	3.1	18	13	5
240	LSLV0008S100-1	0.8	5	41	13	25	6	42	13	26
240	LSLV0015S100-1	1.5	8	54	13	36	9.6	64	13	45
240	LSLV0022S100-1	2.2	11	74	13	53	12	81	13	59
240	LSLV0004S100-2	0.4	2.5	24	13	10	3.1	25	13	8
240	LSLV0008S100-2	0.8	5	24	13	9	6	26	13	12
240	LSLV0015S100-2	1.5	8	56	17	34	9.6	60	17	37
240	LSLV0022S100-2	2.2	11	59	17	36	12	62	17	39
240	LSLV0037S100-2	3.7	16	118	19	86	18	123	19	89
240	LSLV0040S100-2	4.0	17	108	19	77	18	110	19	74
240	LSLV0055S100-2	5.5	24	176	39	118	30	208	39	146
240	LSLV0075S100-2	7.5	32	188	39	128	40	236	39	170
240	LSLV0110S100-2	11	46	230	39	164	56	272	39	201
240	LSLV0150S100-2	15	60	340	39	260	69	428	39	335
480	LSLV0004S100-4	0.4	1.3	21	13	7	2	22	13	8
480	LSLV0008S100-4	0.8	2.5	17	13	4	3.1	19	13	5
480	LSLV0015S100-4	1.5	4	45	17	24	5.1	55	17	27
480	LSLV0022S100-4	2.2	5.5	64	17	22	6.9	76	17	27
480	LSLV0037S100-4	3.7	8	84	21	54	10	95	21	64
480	LSLV0040S100-4	4.0	9	68	21	40	10	131	21	41
480	LSLV0055S100-4	5.5	12	138	43	82	16	163	43	103
480	LSLV0075S100-4	7.5	16	140	43	90	23	179	43	117
480	LSLV0110S100-4	11	24	197	43	133	30	207	43	141
480	LSLV0150S100-4	15	30	212	43	145	38	232	43	162
480	LSLV0185S100-4	18.5	39	320	43	238	44	353	43	267
480	LSLV0220S100-4	22	45	330	43	247	58	425	43	329
480	LSLV0300S100-4	30	61	432	107	280	75	505	107	343
480	LSLV0370S100-4	37	75	609	107	432	91	680	107	493
480	LSLV0450S100-4	45	91	612	107	434	107	677	107	490
480	LSLV0550S100-4	55	110	925	107	703	142	1058	107	818
480	LSLV0750S100-4	75	152	1117	107	869	169	1126	107	876

# Technical Report

## Watt loss H100 Series(60Hz)

Voltage	Model Number	Rated Power (kW)	ND			
			ND Rated OutputCurrent(A)	Total Losses(W)	Internal Losses(W)	Heat Losses (Kcal)
240	LSLV0055H100-2	5.5	22	105	39	57
240	LSLV0075H100-2	7.5	30	134	39	82
240	LSLV0110H100-2	11	42	159	39	103
240	LSLV0150H100-2	15	56	284	39	211
240	LSLV0185H100-2	18.5	69	300	39	225
480	LSLV0055H100-4	5.5	12	115	43	62
480	LSLV0075H100-4	7.5	16	102	43	51
480	LSLV0110H100-4	11	24	159	43	100
480	LSLV0150H100-4	15	30	145	43	88
480	LSLV0185H100-4	18.5	38	246	43	175
480	LSLV0220H100-4	22	45	370	43	281
480	LSLV0300H100-4	30	61	411	107	262
480	LSLV0370H100-4	37	75	570	107	398
480	LSLV0450H100-4	45	91	823	107	616
480	LSLV0550H100-4	55	107	896	107	679
480	LSLV0750H100-4	75	142	990	107	759
480	LSLV0900H100-4	90	169	1290	107	1017

# Technical Report

## Watt loss G100 Series(60Hz)

Vol.	Model Number	Rated Power (kW)	HD				ND			
			Rated Output Current(A)	Total Losses(W)	Internal Losses(W)	Heat Losses (Kcal)	Rated Output Current(A)	Total Losses(W)	Internal Losses(W)	Heat Losses (Kcal)
220	LSLV0004G100-2	0.4	2.5	24	13	10	3.1	25	13	8
220	LSLV0008G100-2	0.8	5.0	24	13	9	6.0	26	13	12
220	LSLV0015G100-2	1.5	8.0	56	17	34	9.6	60	17	37
220	LSLV0022G100-2	2.2	11.0	59	17	36	12.0	62	17	39
220	LSLV0037G100-2	3.7	17.0	118	19	86	18.0	123	19	89
220	LSLV0055G100-2	5.5	24.0	176	39	118	30.0	208	39	146
220	LSLV0075G100-2	7.5	32.0	188	39	128	40.0	236	39	170
440	LSLV0004G100-4	0.4	1.3	21	13	7	2.0	22	13	8
440	LSLV0008G100-4	0.8	2.5	17	13	4	3.1	19	13	5
440	LSLV0015G100-4	1.5	4.0	45	17	24	5.1	55	17	27
440	LSLV0022G100-4	2.2	5.5	64	17	22	6.9	76	17	27
440	LSLV0037G100-4	3.7	9.0	84	21	54	10.0	95	21	64
440	LSLV0055G100-4	5.5	12.0	138	43	82	16.0	163	43	103
440	LSLV0075G100-4	7.5	16.0	140	43	90	23.0	179	43	117

# Technical Report

## Watt loss M100 Series(60Hz)

Vol.	Model Number	Rated Power (kW)	HD				ND			
			Rated Output Current(A)	Total Losses(W)	Internal Losses(W)	Heat Losses (Kcal)	Rated Output Current(A)	Total Losses(W)	Internal Losses(W)	Heat Losses (Kcal)
220	LSLV0001M100-1	0.1	0.8	7	5	1	-	-	-	-
220	LSLV0002M100-1	0.2	1.4	12	8	3	-	-	-	-
220	LSLV0004M100-1	0.4	2.4	21	13	7	-	-	-	-
220	LSLV0008M100-1	0.8	4.2	40	13	23	-	-	-	-
220	LSLV0015M100-1	1.5	7.5	74	14	51	-	-	-	-
220	LSLV0022M100-1	2.2	10	107	14	79	-	-	-	-

# Technical Report

## Watt loss iS7 Series(50Hz)

Voltage	Model Number	Rated Power (kW)	HD				ND			
			Rated Output Current (A)	Total Losses (W)	Internal Losses (W)	Heat Losses (Kcal)	Rated Output Current (A)	Total Losses (W)	Internal Losses (W)	Heat Losses (Kcal)
230	SV0008iS7-2	0.75	5	38	12	22	8	52	12	35
230	SV0015iS7-2	1.5	8	69	16	45	12	96	16	69
230	SV0022iS7-2	2.2	12	78	16	53	16	105	16	77
230	SV0037iS7-2	3.7	16	135	16	102	24	211	16	168
230	SV0055iS7-2	5.5	24	195	18	152	32	276	18	222
230	SV0075iS7-2	7.5	32	242	18	192	46	381	18	312
230	SV0110iS7-2	11	46	377	36	293	60	491	36	391
230	SV0150iS7-2	15	60	501	36	400	74	625	36	507
230	SV0185iS7-2	18.5	74	610	36	494	88	737	36	603
230	SV0220iS7-2	22	88	684	36	557	124	989	36	820
230	SV0300iS7-2	30	116	891	182.5	609	146	1191	182.5	867
230	SV0370iS7-2	37	146	1258	182.5	925	180	1498	182.5	1131
230	SV0450iS7-2	45	180	1314	182.5	973	220	1590	182.5	1210
230	SV0550iS7-2	55	220	1783	182.5	1377	288	1800	182.5	1391
230	SV0750iS7-2	75	288	2367	182.5	1879	345	2516	182.5	1697
480	SV0008iS7-4	0.75	2.5	33	12.0	18	4	40	12.0	24
480	SV0015iS7-4	1.5	4	58	16.0	36	6	73	16.0	49
480	SV0022iS7-4	2.2	6	77	16.0	53	8	87	16.0	61
480	SV0037iS7-4	3.7	8	104	16	76	12	142	16	108
480	SV0055iS7-4	5.5	12	173	20	131	16	230	20	181
480	SV0075iS7-4	7.5	16	209	20	163	24	324	20	261
480	SV0110iS7-4	11	24	355	40	271	30	422	40	329
480	SV0150iS7-4	15	30	431	40	336	39	548	40	437
480	SV0185iS7-4	18.5	39	503	40	398	45	608	40	488
480	SV0220iS7-4	22	45	552	40	440	61	796	40	650
480	SV0300iS7-4	30	61	588	100	420	75	830	100	596
480	SV0370iS7-4	37	75	893	100	682	91	1130	100	886
480	SV0450iS7-4	45	91	1065	100	830	110	1348	100	1073
480	SV0550iS7-4	55	110	1280	100	1015	152	1847	100	1502
480	SV0750iS7-4	75	152	1613	100	1301	183	1896	100	1700
480	SV0900iS7-4	90	183	1721	193	1151	223	2043	193	1402
480	SV1100iS7-4	110	223	1829	193	1407	264	2128	193	1664
480	SV1320iS7-4	132	264	2157	193	1689	325	2614	193	2082
480	SV1600iS7-4	160	325	2384	193	1884	370	2714	193	2168
480	SV1850iS7-4	185	370	2706	268	2097	432	3478	268	2760
480	SV2200iS7-4	220	432	2904	268	2267	547	4151	268	3339
480	SV2800iS7-4	280	547	4270	268	3442	613	4644	268	3763
480	SV3150iS7-4	315	613	4810	268	3906	731	5337	268	3390
480	SV3750iS7-4	375	731	5411	268	4423	877	6524	268	3832



# Technical Report

## Watt loss S100 Series(50Hz)

Vol.	Model Number	Rated Power (kW)	HD				ND			
			Rated Output Current(A)	Total Losses(W)	Internal Losses(W)	Heat Losses (Kcal)	Rated Output Current(A)	Total Losses(W)	Internal Losses(W)	Heat Losses (Kcal)
240	LSLV0004S100-1	0.4	2.5	23	13	9	3.1	28	13	5
240	LSLV0008S100-1	0.8	5	41	13	25	6	43	13	26
240	LSLV0015S100-1	1.5	8	54	13	35	9.6	66	13	46
240	LSLV0022S100-1	2.2	11	74	13	53	12	80	13	58
240	LSLV0004S100-2	0.4	2.5	25	13	10	3.1	26	13	8
240	LSLV0008S100-2	0.8	5	48	13	10	6	56	13	13
240	LSLV0015S100-2	1.5	8	60	17	37	9.6	63	17	40
240	LSLV0022S100-2	2.2	11	64	17	41	12	66	17	43
240	LSLV0037S100-2	3.7	16	124	19	90	18	132	19	97
240	LSLV0040S100-2	4.0	17	114	19	81	18	123	19	82
240	LSLV0055S100-2	5.5	24	183	39	124	30	221	39	157
240	LSLV0075S100-2	7.5	32	198	39	137	40	254	39	185
240	LSLV0110S100-2	11	46	242	39	175	56	283	39	210
240	LSLV0150S100-2	15	60	389	39	301	69	405	39	315
480	LSLV0004S100-4	0.4	1.3	22	13	8	2	23	13	9
480	LSLV0008S100-4	0.8	2.5	19	13	6	3.1	20	13	7
480	LSLV0015S100-4	1.5	4	49	17	27	5.1	51	17	29
480	LSLV0022S100-4	2.2	5.5	47	17	26	6.9	52	17	31
480	LSLV0037S100-4	3.7	8	93	21	59	10	121	21	70
480	LSLV0040S100-4	4.0	9	115	21	46	10	124	21	47
480	LSLV0055S100-4	5.5	12	143	43	86	16	172	43	111
480	LSLV0075S100-4	7.5	16	138	43	82	23	192	43	128
480	LSLV0110S100-4	11	24	240	43	170	30	252	43	180
480	LSLV0150S100-4	15	30	270	43	195	38	294	43	216
480	LSLV0185S100-4	18.5	39	320	43	238	44	353	43	267
480	LSLV0220S100-4	22	45	330	43	247	58	425	43	329
480	LSLV0300S100-4	30	61	495	107	334	75	568	107	396
480	LSLV0370S100-4	37	75	719	107	527	91	792	107	589
480	LSLV0450S100-4	45	91	747	107	550	107	810	107	604
480	LSLV0550S100-4	55	110	980	107	751	142	1165	107	910
480	LSLV0750S100-4	75	152	1193	107	934	169	1251	107	984

# Technical Report

## Watt loss H100 Series(50Hz)

Voltage	Model Number	Rated Power (kW)	ND			
			ND Rated OutputCurrent(A)	Total Losses(W)	Internal Losses(W)	Heat Losses (Kcal)
240	LSLV0055H100-2	5.5	22	119	39	69
240	LSLV0075H100-2	7.5	30	155	39	100
240	LSLV0110H100-2	11	42	186	39	127
240	LSLV0150H100-2	15	56	246	39	179
240	LSLV0185H100-2	18.5	69	448	39	352
480	LSLV0055H100-4	5.5	12	115	43	62
480	LSLV0075H100-4	7.5	16	110	43	58
480	LSLV0110H100-4	11	24	159	43	100
480	LSLV0150H100-4	15	30	222	43	154
480	LSLV0185H100-4	18.5	38	287	43	209
480	LSLV0220H100-4	22	45	370	43	281
480	LSLV0300H100-4	30	61	491	107	330
480	LSLV0370H100-4	37	75	570	107	398
480	LSLV0450H100-4	45	91	823	107	616
480	LSLV0550H100-4	55	107	896	107	679
480	LSLV0750H100-4	75	142	990	107	759
480	LSLV0900H100-4	90	169	1410	107	1121

# Technical Report

THD data of LSIS inverter series.

# Technical Report

## iS7 Series 200V Class

Model Number : SV□□□□iS7-2

Network and Transformer data	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75
Primary voltage [V]	6600														
Secondary voltage [V]	220														
Transformer Sn [kVA]	300														

### iS7 230V, 60Hz, HD

Drive Specification	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
Output Voltage[V]	220														
Output Current [A]	5	8	12	16	24	32	46	60	74	88	116	146	180	220	288
Input Current [A]	4.3	6.9	11.2	14.9	22.1	28.6	44.3	55.9	70.8	85.3	121	154	191	233	305
Carrier Frequency[kHz]	5														
Built-in EMC	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO
Built-in Reactor	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO

### THD Result(Input)

Result	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
THD Current [%]	36.57	35.15	36.04	36.04	30.46	37.60	34.43	33.43	32.85	33.24	51.23	48.82	45.41	44.61	43.23

### iS7 230V, 60Hz, ND

Drive Specification	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
Output Voltage[V]	220														
Output Current [A]	8	12	16	24	32	46	60	74	88	124	146	180	220	288	345
Input Current [A]	6.8	10.6	14.9	21.3	28.6	41.2	54.7	69.7	82.9	116.1	152	190	231	302	362
Carrier Frequency[kHz]	5														
Built-in EMC	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO
Built-in Reactor	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO

### THD Result(Input)

Result	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
THD Current [%]	35.56	34.21	33.66	33.28	33.67	33.98	33.37	33.29	32.18	29.80	46.04	44.07	42.10	41.20	40.34

# Technical Report

## iS7 Series 400V Class

Model Number : SV□□□□iS7-4

Network and Transformer data	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37
Primary voltage [V]	6600											
Secondary voltage [V]	440											
Transformer Sn [kVA]	300											

Network and Transformer data	45	55	75	90	110	132	160	185	220	280	315	375
Primary voltage [V]	6600											
Secondary voltage [V]	440											
Transformer Sn [kVA]	300											

### iS7 440V, 60Hz, HD

Drive Specification	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
Output Voltage[V]	440											
Output Current [A]	2.5	4	6	8	12	16	24	30	39	45	61	75
Input Current [A]	2.2	3.6	5.5	7.5	11	14.4	22	26.6	35.6	41.6	55.5	67.9
Carrier Frequency[kHz]	5											
Built-in EMC	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	NO	NO
Built-in Reactor	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES

Drive Specification	45 kW	55 kW	75 kW	90 kW	110 kW	132 kW	160 kW	185 kW	220 kW	280 kW	315 kW	375 kW
Output Voltage[V]	440											
Output Current [A]	91	110	152	183	223	264	325	370	432	547	613	731
Input Current [A]	82.4	102.6	143.4	174.7	213.5	255.6	316.3	404	466	605	674	798
Carrier Frequency[kHz]	5	5	5	3	3	3	3	3	2	2	2	2
Built-in EMC	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Built-in Reactor	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO

### THD Result(Input)

Result	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
THD Current [%]	37.85	36.73	36.13	74.45	37.80	38.12	36.59	36.13	35.61	33.17	31.09	33.75

Result	45 kW	55 kW	75 kW	90 kW	110 kW	132 kW	160 kW	185 kW	220 kW	280 kW	315 kW	375 kW
THD Current [%]	33.20	32.61	31.36	30.75	29.55	29.02	27.99	27.99	29.19	33.29	31.04	31.75

# Technical Report

## iS7 Series 400V Class

Model Number : SV□□□□iS7-4

Network and Transformer data	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37
Primary voltage [V]	6600											
Secondary voltage [V]	440											
Transformer Sn [kVA]	300											

Network and Transformer data	45	55	75	90	110	132	160	185	220	280	315	375
Primary voltage [V]	6600											
Secondary voltage [V]	440											
Transformer Sn [kVA]	300											

### iS7 440V, 60Hz, ND

Drive Specification	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
Output Voltage[V]	440											
Output Current [A]	4	6	8	12	16	24	30	39	45	61	75	91
Input Current [A]	3.7	5.7	7.7	11.1	14.7	21.9	26.4	35.5	41.1	55.7	67.5	81.7
Carrier Frequency[kHz]	5											
Built-in EMC	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	NO	NO
Built-in Reactor	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES

Drive Specification	45 kW	55 kW	75 kW	90 kW	110 kW	132 kW	160 kW	185 kW	220 kW	280 kW	315 kW	375 kW
Output Voltage[V]	440											
Output Current [A]	110	152	183	223	264	325	370	432	547	613	731	877
Input Current [A]	101.8	143.6	173.4	212.9	254.2	315.3	359.3	463	590	673	796	948
Carrier Frequency[kHz]	5	5	5	3	3	3	3	3	2	2	2	2
Built-in EMC	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Built-in Reactor	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO

### THD Result(Input)

Result	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
THD Current [%]	36.29	37.81	35.33	67.17	35.99	35.13	38.12	39.57	32.19	31.82	30.10	30.30

Result	45 kW	55 kW	75 kW	90 kW	110 kW	132 kW	160 kW	185 kW	220 kW	280 kW	315 kW	375 kW
THD Current [%]	32.80	32.33	30.18	30.01	29.40	28.30	28.40	26.59	27.83	31.86	30.92	30.30

# Technical Report

## iS7 Series 200V Class

Model Number : SV□□□□iS7-2

Network and Transformer data	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75
Primary voltage [V]	6600														
Secondary voltage [V]	220														
Transformer Sn [kVA]	300														

### *iS7 230V, 50Hz, HD*

Drive Specification	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
Output Voltage[V]	220														
Output Current [A]	5	8	12	16	24	32	46	60	74	88	116	146	180	220	288
Input Current [A]	4.3	6.9	11.2	14.9	22.1	28.6	44.3	55.9	70.8	85.3	121	154	191	233	305
Carrier Frequency[kHz]	5														
Built-in EMC	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO
Built-in Reactor	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO

### THD Result(Input)

Result	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
THD Current [%]	38.52	39.01	39.51	38.22	39.48	39.47	35.67	37.69	36.98	37.26	55.39	52.21	49.04	48.59	47.82

### *iS7 230V, 50Hz, ND*

Drive Specification	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
Output Voltage[V]	220														
Output Current [A]	8	12	16	24	32	46	60	74	88	124	146	180	220	288	345
Input Current [A]	6.8	10.6	14.9	21.3	28.6	41.2	54.7	69.7	82.9	116.1	152	190	231	302	362
Carrier Frequency[kHz]	5														
Built-in EMC	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO
Built-in Reactor	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO

### THD Result(Input)

Result	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
THD Current [%]	36.33	35.18	35.62	36.54	37.31	36.03	34.36	34.74	32.17	32.01	51.07	48.40	45.74	44.78	44.01

# Technical Report

## iS7 Series 400V Class

Model Number : SV□□□□iS7-4

Network and Transformer data	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37
Primary voltage [V]	6600											
Secondary voltage [V]	440											
Transformer Sn [kVA]	300											

Network and Transformer data	45	55	75	90	110	132	160	185	220	280	315	375
Primary voltage [V]	6600											
Secondary voltage [V]	440											
Transformer Sn [kVA]	300											

### iS7 440V, 50Hz, HD

Drive Specification	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
Output Voltage[V]	440											
Output Current [A]	2.5	4	6	8	12	16	24	30	39	45	61	75
Input Current [A]	2.2	3.6	5.5	7.5	11	14.4	22	26.6	35.6	41.6	55.5	67.9
Carrier Frequency[kHz]	5											
Built-in EMC	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	NO	NO
Built-in Reactor	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES

Drive Specification	45 kW	55 kW	75 kW	90 kW	110 kW	132 kW	160 kW	185 kW	220 kW	280 kW	315 kW	375 kW
Output Voltage[V]	440											
Output Current [A]	91	110	152	183	223	264	325	370	432	547	613	731
Input Current [A]	82.4	102.6	143.4	174.7	213.5	255.6	316.3	404	466	605	674	798
Carrier Frequency[kHz]	5	5	5	3	3	3	3	3	2	2	2	2
Built-in EMC	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Built-in Reactor	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO

### THD Result(Input)

Result	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
THD Current [%]	38.88	39.14	38.16	77.14	39.11	38.34	37.46	37.21	35.14	35.55	33.78	33.74

Result	45 kW	55 kW	75 kW	90 kW	110 kW	132 kW	160 kW	185 kW	220 kW	280 kW	315 kW	375 kW
THD Current [%]	33.18	33.11	32.29	30.37	30.74	30.01	28.13	27.87	27.13	27.47	28.13	28.73



# Technical Report

## iS7 Series 400V Class

Model Number : SV□□□□iS7-4

Network and Transformer data	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37
Primary voltage [V]	6600											
Secondary voltage [V]	440											
Transformer Sn [kVA]	300											

Network and Transformer data	45	55	75	90	110	132	160	185	220	280	315	375
Primary voltage [V]	6600											
Secondary voltage [V]	440											
Transformer Sn [kVA]	300											

### iS7 440V, 50Hz, ND

Drive Specification	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
Output Voltage[V]	440											
Output Current [A]	4	6	8	12	16	24	30	39	45	61	75	91
Input Current [A]	3.7	5.7	7.7	11.1	14.7	21.9	26.4	35.5	41.1	55.7	67.5	81.7
Carrier Frequency[kHz]	5											
Built-in EMC	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	NO	NO
Built-in Reactor	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES

Drive Specification	45 kW	55 kW	75 kW	90 kW	110 kW	132 kW	160 kW	185 kW	220 kW	280 kW	315 kW	375 kW
Output Voltage[V]	440											
Output Current [A]	110	152	183	223	264	325	370	432	547	613	731	877
Input Current [A]	101.8	143.6	173.4	212.9	254.2	315.3	359.3	463	590	673	796	948
Carrier Frequency[kHz]	5	5	5	3	3	3	3	3	2	2	2	2
Built-in EMC	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Built-in Reactor	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO

### THD Result(Input)

Result	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
THD Current [%]	37.12	37.84	38.15	66.13	37.15	38.70	38.74	38.44	33.18	33.21	32.05	32.73

Result	45 kW	55 kW	75 kW	90 kW	110 kW	132 kW	160 kW	185 kW	220 kW	280 kW	315 kW	375 kW
THD Current [%]	32.70	33.18	31.07	30.17	28.40	27.41	28.14	27.18	28.46	30.18	31.18	30.44

# Technical Report

## S100 Series 200V Class

Model Number : LSLV□□□□S100-2

Network and Transformer data	0.4 (1φ)	0.8 (1φ)	1.5 (1φ)	2.2 (1φ)	0.4 (3φ)	0.8 (3φ)	1.5 (3φ)	2.2 (3φ)	3.7 (3φ)	4.0 (3φ)	5.5 (3φ)	7.5 (3φ)	11 (3φ)	15 (3φ)
Primary voltage [V]	6600													
Secondary voltage [V]	220													
Transformer Sn [kVA]	300													

### S100 230V, 60Hz, HD

Drive Specification	0.4kW (1φ)	0.8kW (1φ)	1.5kW (1φ)	2.2kW (1φ)	0.4kW (3φ)	0.8kW (3φ)	1.5kW (3φ)	2.2kW (3φ)	3.7kW (3φ)	4.0kW (3φ)	5.5kW (3φ)	7.5kW (3φ)	11kW (3φ)	15kW (3φ)
Output Voltage[V]	220													
Output Current [A]	2.5	5	8	11	2.5	5	8	11	16	17	24	32	46	60
Input Current [A]	4.4	9.3	15.6	21.7	2.2	4.9	8.4	11.8	17.5	18.5	25.8	34.9	50.8	66.7
Carrier Frequency[kHz]	3													
Built-in EMC	YES	YES	YES	YES	NO	NO	NO	NO	NO	NO	YES	YES	NO	NO
Built-in Reactor	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

### THD Result(Input)

Result	0.4kW (1φ)	0.8kW (1φ)	1.5kW (1φ)	2.2kW (1φ)	0.4kW (3φ)	0.8kW (3φ)	1.5kW (3φ)	2.2kW (3φ)	3.7kW (3φ)	4.0kW (3φ)	5.5kW (3φ)	7.5kW (3φ)	11kW (3φ)	15kW (3φ)
THD Current [%]	79.90	77.90	75.90	76.54	76.22	75.90	75.46	75.03	73.20	71.38	61.72	63.09	44.35	40.84

### S100 230V, 60Hz, ND

Drive Specification	0.4kW (1φ)	0.8kW (1φ)	1.5kW (1φ)	2.2kW (1φ)	0.4kW (3φ)	0.8kW (3φ)	1.5kW (3φ)	2.2kW (3φ)	3.7kW (3φ)	4.0kW (3φ)	5.5kW (3φ)	7.5kW (3φ)	11kW (3φ)	15kW (3φ)
Output Voltage[V]	220													
Output Current [A]	3.1	6	9.6	12	3.1	6	9.6	12	18	18	30	40	56	69
Input Current [A]	5.8	11.7	19.7	24	3	6.3	10.8	13.1	19.4	19.4	32.7	44.2	62.3	77.2
Carrier Frequency[kHz]	2													
Built-in EMC	YES	YES	YES	YES	NO	NO	NO	NO	NO	NO	YES	YES	NO	NO
Built-in Reactor	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

### THD Result(Input)

Result	0.4kW (1φ)	0.8kW (1φ)	1.5kW (1φ)	2.2kW (1φ)	0.4kW (3φ)	0.8kW (3φ)	1.5kW (3φ)	2.2kW (3φ)	3.7kW (3φ)	4.0kW (3φ)	5.5kW (3φ)	7.5kW (3φ)	11kW (3φ)	15kW (3φ)
THD Current [%]	78.73	76.30	73.88	76.04	74.96	73.88	74.02	74.16	72.52	70.89	61.66	60.43	42.54	38.79

# Technical Report

## S100 Series 400V Class

Model Number : LSLV□□□□S100-4

Network and Transformer data	0.4	0.8	1.5	2.2	3.7	4.0	5.5	7.5	11	15	18.5	22	30	37	45	55	75
Primary voltage [V]	6600																
Secondary voltage [V]	440																
Transformer Sn [kVA]	300																

### S100 440V, 60Hz, HD

Drive Specification	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
Output Voltage[V]	440																
Output Current [A]	1.3	2.5	4	5.5	8	9	12	16	24	30	39	45	61	75	91	110	152
Input Current [A]	1.1	2.4	4.2	5.9	8.7	9.8	12.9	17.5	26.5	33.4	43.6	50.7	56	69	85	103	143
Carrier Frequency[kHz]	3																
Built-in EMC	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO
Built-in Reactor	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES

### THD Result(Input)

Result	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
THD Current [%]	78.29	78.12	76.98	75.84	74.14	72.45	67.80	66.60	53.20	51.9	62.10	60.36	36.14	34.74	33.34	32.97	32.61

### S100 440V, 60Hz, ND

Drive Specification	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
Output Voltage[V]	440																
Output Current [A]	2	3.1	5.1	6.9	10	10	16	23	30	38	44	58	75	91	107	142	169
Input Current [A]	2	3.3	5.5	7.5	10.8	10.8	17.5	25.4	33.4	42.5	49.5	65.7	69	85	100	134	160
Carrier Frequency[kHz]	2																
Built-in EMC	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO
Built-in Reactor	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES

### THD Result(Input)

Result	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
THD Current [%]	77.82	76.00	74.20	72.41	71.54	70.67	64.57	63.19	52.28	50.16	59.10	58.60	33.43	32.93	32.83	32.21	31.59

# Technical Report

## H100 Series 200V Class

Model Number : LSLV□□□□H100-2

Network and Transformer data	4kW	5.5kW	7.5kW	11kW	15kW	18.5kW
Primary voltage [V]	6600					
Secondary voltage [V]	220					
Transformer Sn [kVA]	300					

### *H100 230V, 60Hz, ND*

Drive Specification	5.5kW	7.5kW	11kW	15kW	18.5kW
Output Voltage[V]	220				
Output Current [A]	22	30	42	56	69
Input Current [A]	23.7	32.7	46.4	62.3	77.2
Carrier Frequency[kHz]	3				
Built-in EMC	NO	NO	NO	NO	NO
Built-in Reactor	NO	NO	NO	NO	NO

### THD Result(Input)

Result	5.5kW	7.5kW	11kW	15kW	18.5kW
THD Current [%]	65.88	64.69	45.09	41.83	38.18

## H100 Series 400V Class

Model Number : LSLV□□□□H100-4

Network and Transformer data	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW	55kW	75kW	90kW
Primary voltage [V]	6600											
Secondary voltage [V]	440											
Transformer Sn [kVA]	300											

### *H100 440V, 60Hz, ND*

Drive Specification	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW	55kW	75kW	90kW
Output Voltage[V]	440											
Output Current [A]	12	16	24	30	38	45	61	75	91	107	142	169
Input Current [A]	12.2	17.5	26.5	33.4	42.5	50.7	69.1	69.3	84.6	100.1	133.6	160
Carrier Frequency [kHz]	3											
Built-in EMC	YES	YES	YES	NO	NO	YES	YES	YES	YES	YES	NO	NO
Built-in Reactor	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES

### THD Result(Input)

Result	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW	55kW	75kW	90kW
THD Current [%]	68.88	64.32	63.15	61.51	50.87	61.12	60.51	32.25	31.28	32.44	32.43	31.41

# Technical Report

## S100 Series 200V Class

Model Number : LSLV□□□□S100-2

Network and Transformer data	0.4 (1φ)	0.8 (1φ)	1.5 (1φ)	2.2 (1φ)	0.4 (3φ)	0.8 (3φ)	1.5 (3φ)	2.2 (3φ)	3.7 (3φ)	4.0 (3φ)	5.5 (3φ)	7.5 (3φ)	11 (3φ)	15 (3φ)
Primary voltage [V]	6600													
Secondary voltage [V]	220													
Transformer Sn [kVA]	300													

### S100 230V, 50Hz, HD

Drive Specification	0.4kW (1φ)	0.8kW (1φ)	1.5kW (1φ)	2.2kW (1φ)	0.4kW (3φ)	0.8kW (3φ)	1.5kW (3φ)	2.2kW (3φ)	3.7kW (3φ)	4.0kW (3φ)	5.5kW (3φ)	7.5kW (3φ)	11kW (3φ)	15kW (3φ)
Output Voltage[V]	220		220	220		220		220		220		220	220	220
Output Current [A]	2.5	5	8	11	2.5	5	8	11	16	17	24	32	46	60
Input Current [A]	4.4	9.3	15.6	21.7	2.2	4.9	8.4	11.8	17.5	18.5	25.8	34.9	50.8	66.7
Carrier Frequency[kHz]	3													
Built-in EMC	YES	YES	YES	YES	NO	NO	NO	NO	NO	NO	YES	YES	NO	NO
Built-in Reactor	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

### THD Result(Input)

Result	0.4kW (1φ)	0.8kW (1φ)	1.5kW (1φ)	2.2kW (1φ)	0.4kW (3φ)	0.8kW (3φ)	1.5kW (3φ)	2.2kW (3φ)	3.7kW (3φ)	4.0kW (3φ)	5.5kW (3φ)	7.5kW (3φ)	11kW (3φ)	15kW (3φ)
THD Current [%]	79.57	79.30	79.03	75.98	76.09	76.21	76.44	76.68	75.69	74.71	65.78	64.47	45.05	45.05

### S100 230V, 50Hz, ND

Drive Specification	0.4kW (1φ)	0.8kW (1φ)	1.5kW (1φ)	2.2kW (1φ)	0.4kW (3φ)	0.8kW (3φ)	1.5kW (3φ)	2.2kW (3φ)	3.7kW (3φ)	4.0kW (3φ)	5.5kW (3φ)	7.5kW (3φ)	11kW (3φ)	15kW (3φ)
Output Voltage[V]	220													
Output Current [A]	3.1	6	9.6	12	3.1	6	9.6	12	18	18	30	40	56	69
Input Current [A]	5.8	11.7	19.7	24	3	6.3	10.8	13.1	19.4	19.4	32.7	44.2	62.3	77.2
Carrier Frequency[kHz]	3													
Built-in EMC	YES	YES	YES	YES	NO	NO	NO	NO	NO	NO	YES	YES	NO	NO
Built-in Reactor	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

### THD Result(Input)

Result	0.4kW (1φ)	0.8kW (1φ)	1.5kW (1φ)	2.2kW (1φ)	0.4kW (3φ)	0.8kW (3φ)	1.5kW (3φ)	2.2kW (3φ)	3.7kW (3φ)	4.0kW (3φ)	5.5kW (3φ)	7.5kW (3φ)	11kW (3φ)	15kW (3φ)
THD Current [%]	79.30	78.09	76.89	74.89	74.34	73.79	74.69	75.60	74.63	73.66	62.15	61.57	44.44	44.44

# Technical Report

## S100 Series 400V Class

Model Number : LSLV□□□□S100-4

Network and Transformer data	0.4	0.8	1.5	2.2	3.7	4.0	5.5	7.5	11	15	18.5	22	30	37	45	55	75
Primary voltage [V]	6600																
Secondary voltage [V]	440																
Transformer Sn [kVA]	300																

### S100 440V, 50Hz, HD

Drive Specification	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
Output Voltage[V]	440																
Output Current [A]	1.3	2.5	4	5.5	8	9	12	16	24	30	39	45	61	75	91	110	152
Input Current [A]	1.1	2.4	4.2	5.9	8.7	9.8	12.9	17.5	26.5	33.4	43.6	50.7	56	69	85	103	143
Carrier Frequency[kHz]	3																
Built-in EMC	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO
Built-in Reactor	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES

### THD Result(Input)

Result	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
THD Current [%]	79.15	78.27	77.61	76.95	76.10	75.23	69.15	65.62	50.86	49.91	62.13	61.72	38.18	37.57	36.97	36.39	35.80

### S100 440V, 50Hz, ND

Drive Specification	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
Output Voltage[V]	440																
Output Current [A]	2	3.1	5.1	6.9	10	10	16	23	30	38	44	58	75	91	107	142	169
Input Current [A]	2	3.3	5.5	7.5	10.8	10.8	17.5	25.4	33.4	42.5	49.5	65.7	69	85	100	134	160
Carrier Frequency[kHz]	2																
Built-in EMC	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO
Built-in Reactor	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES

### THD Result(Input)

Result	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
THD Current [%]	78.18	75.34	74.77	74.18	73.85	73.53	64.57	62.48	55.15	52.45	63.79	60.25	36.29	36.31	36.34	35.48	34.62

# Technical Report

## H100 Series 200V Class

Model Number : LSLV□□□□H100-2

Network and Transformer data	4kW	5.5kW	7.5kW	11kW	15kW	18.5kW
Primary voltage [V]	6600					
Secondary voltage [V]	220					
Transformer Sn [kVA]	300					

### *H100 230V, 50Hz, ND*

Drive Specification	5.5kW	7.5kW	11kW	15kW	18.5kW
Output Voltage[V]	220				
Output Current [A]	22	30	42	56	69
Input Current [A]	23.7	32.7	46.4	62.3	77.2
Carrier Frequency[kHz]	3				
Built-in EMC	NO	NO	NO	NO	NO
Built-in Reactor	NO	NO	NO	NO	NO

### THD Result(Input)

Result	5.5kW	7.5kW	11kW	15kW	18.5kW
THD Current [%]	68.48	69.15	48.85	45.79	43.36

## H100 Series 400V Class

Model Number : LSLV□□□□H100-4

Network and Transformer data	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW	55kW	75kW	90kW
Primary voltage [V]	6600											
Secondary voltage [V]	440											
Transformer Sn [kVA]	300											

### *H100 440V, 50Hz, ND*

Drive Specification	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW	55kW	75kW	90kW
Output Voltage[V]	440											
Output Current [A]	12	16	24	30	38	45	61	75	91	107	142	169
Input Current [A]	12.2	17.5	26.5	33.4	42.5	50.7	69.1	69.3	84.6	100.1	133.6	160
Carrier Frequency [kHz]	3											
Built-in EMC	YES	YES	YES	NO	NO	YES	YES	YES	YES	YES	NO	NO
Built-in Reactor	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES

### THD Result(Input)

Result	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW	55kW	75kW	90kW
THD Current [%]	69.78	67.18	63.22	63.86	51.40	62.47	37.15	36.94	33.18	34.82	35.52	34.48

# Technical Report

## G100 Series 200V Class

Model Number : LSLV□□□□G100-2

Network and Transformer data	0.4kW	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW
Primary voltage [V]	6600						
Secondary voltage [V]	220						
Transformer Sn [kVA]	300						

### *G100 220V, 60Hz, HD*

Drive Specification	0.4kW	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW
Output Voltage[V]	220						
Output Current [A]	2.5	5.0	8.0	11.0	17.0	24.0	32.0
Input Current [A]	2.2	4.9	8.4	11.8	18.5	25.8	34.9
Carrier Frequency[kHz]	3						
Built-in EMC	NO	NO	NO	NO	NO	NO	NO
Built-in Reactor	NO	NO	NO	NO	NO	NO	NO

### THD Result(Input)

Result	0.4kW	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW
THD Current [%]	72.52	69.18	66.77	66.98	64.57	60.7	61.8

### *G100 220V, 60Hz, ND*

Drive Specification	0.4kW	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW
Output Voltage[V]	220						
Output Current [A]	3.1	6.0	9.6	12.0	18.0	30.0	40.0
Input Current [A]	3.0	6.3	10.8	13.1	19.4	32.7	44.2
Carrier Frequency[kHz]	3						
Built-in EMC	NO	NO	NO	NO	NO	NO	NO
Built-in Reactor	NO	NO	NO	NO	NO	NO	NO

### THD Result(Input)

Result	0.4kW	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW
THD Current [%]	66.26	57.78	57.55	61.14	55.7	50.25	42.78



# Technical Report

## G100 Series 400V Class

Model Number : LSLV□□□□G100-4

Network and Transformer data	0.4kW	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW
Primary voltage [V]	6600						
Secondary voltage [V]	440						
Transformer Sn [kVA]	300						

### *G100 440V, 60Hz, HD*

Drive Specification	0.4kW	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW
Output Voltage[V]	440						
Output Current [A]	1.3	2.5	4.0	5.5	9.0	12.0	16.0
Input Current [A]	1.1	2.4	4.2	5.9	9.8	12.9	17.5
Carrier Frequency[kHz]	3						
Built-in EMC	NO	NO	NO	NO	NO	YES	NO
Built-in Reactor	NO	NO	NO	NO	NO	NO	NO

### THD Result(Input)

Result	0.4kW	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW
THD Current [%]	81.1	78.87	80.29	77.07	78.87	80.2	79.43

### *G100 440V, 60Hz, ND*

Drive Specification	0.4kW	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW
Output Voltage[V]	440						
Output Current [A]	2.0	3.1	5.1	6.9	10.0	16.0	23.0
Input Current [A]	2.0	3.3	5.5	7.5	10.8	17.5	25.4
Carrier Frequency[kHz]	3						
Built-in EMC	NO	NO	NO	NO	NO	YES	NO
Built-in Reactor	NO	NO	NO	NO	NO	NO	NO

### THD Result(Input)

Result	0.4kW	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW
THD Current [%]	62.64	59.57	58.99	60.94	59.53	50.43	43.59

# Technical Report

## G100 Series 200V Class

Model Number : LSLV□□□□G100-2

Network and Transformer data	0.4kW	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW
Primary voltage [V]	6600						
Secondary voltage [V]	220						
Transformer Sn [kVA]	300						

### *G100 220V, 50Hz, HD*

Drive Specification	0.4kW	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW
Output Voltage[V]	220						
Output Current [A]	2.5	5.0	8.0	11.0	17.0	24.0	32.0
Input Current [A]	2.2	4.9	8.4	11.8	18.5	25.8	34.9
Carrier Frequency[kHz]	3						
Built-in EMC	NO	NO	NO	NO	NO	NO	NO
Built-in Reactor	NO	NO	NO	NO	NO	NO	NO

### THD Result(Input)

Result	0.4kW	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW
THD Current [%]	74.59	69.44	70.26	69.64	65.54	62.2	63.1

### *G100 220V, 50Hz, ND*

Drive Specification	0.4kW	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW
Output Voltage[V]	220						
Output Current [A]	3.1	6.0	9.6	12.0	18.0	30.0	40.0
Input Current [A]	3.0	6.3	10.8	13.1	19.4	32.7	44.2
Carrier Frequency[kHz]	3						
Built-in EMC	NO	NO	NO	NO	NO	NO	NO
Built-in Reactor	NO	NO	NO	NO	NO	NO	NO

### THD Result(Input)

Result	0.4kW	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW
THD Current [%]	69.73	62.26	59.77	62.45	57.22	51.99	43.8

# Technical Report

## G100 Series 400V Class

Model Number : LSLV□□□□G100-4

Network and Transformer data	0.4kW	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW
Primary voltage [V]	6600						
Secondary voltage [V]	440						
Transformer Sn [kVA]	300						

### *G100 440V, 50Hz, HD*

Drive Specification	0.4kW	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW
Output Voltage[V]	440						
Output Current [A]	1.3	2.5	4.0	5.5	9.0	12.0	16.0
Input Current [A]	1.1	2.4	4.2	5.9	9.8	12.9	17.5
Carrier Frequency[kHz]	3						
Built-in EMC	NO	NO	NO	NO	NO	YES	NO
Built-in Reactor	NO	NO	NO	NO	NO	NO	NO

### THD Result(Input)

Result	0.4kW	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW
THD Current [%]	80.41	80.61	80.5	79.92	80.36	79.8	80.45

### *G100 440V, 50Hz, ND*

Drive Specification	0.4kW	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW
Output Voltage[V]	440						
Output Current [A]	2.0	3.1	5.1	6.9	10.0	16.0	23.0
Input Current [A]	2.0	3.3	5.5	7.5	10.8	17.5	25.4
Carrier Frequency[kHz]	3						
Built-in EMC	NO	NO	NO	NO	NO	YES	NO
Built-in Reactor	NO	NO	NO	NO	NO	NO	NO

### THD Result(Input)

Result	0.4kW	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW
THD Current [%]	67.53	64.24	62.32	61.7	59.9	52.15	44.16

# Technical Report

## M100 Series 200V Class

Model Number : LSLV□□□□M100-1

Network and Transformer data	0.1kW	0.2kW	0.4kW	0.8kW	1.5kW	2.2kW
Primary voltage [V]	6600					
Secondary voltage [V]	220					
Transformer Sn [kVA]	300					

### *M100 220V, 60Hz, HD*

Drive Specification	0.1kW	0.2kW	0.4kW	0.8kW	1.5kW	2.2kW
Output Voltage[V]	220					
Output Current [A]	0.8	1.4	2.4	4.2	7.5	10.0
Input Current [A]	1.0	1.8	3.7	7.1	13.6	18.7
Carrier Frequency[kHz]	3					
Built-in EMC	YES	YES	YES	YES	YES	YES
Built-in Reactor	NO	NO	NO	NO	NO	NO

### THD Result(Input)

Result	0.1kW	0.2kW	0.4kW	0.8kW	1.5kW	2.2kW
THD Current [%]	81.14	79.94	80.40	78.17	76.50	74.12

### *M100 220V, 50Hz, HD*

Drive Specification	0.1kW	0.2kW	0.4kW	0.8kW	1.5kW	2.2kW
Output Voltage[V]	220					
Output Current [A]	0.8	1.4	2.4	4.2	7.5	10.0
Input Current [A]	1.0	1.8	3.7	7.1	13.6	18.7
Carrier Frequency[kHz]	3					
Built-in EMC	YES	YES	YES	YES	YES	YES
Built-in Reactor	NO	NO	NO	NO	NO	NO

### THD Result(Input)

Result	0.1kW	0.2kW	0.4kW	0.8kW	1.5kW	2.2kW
THD Current [%]	80.88	79.57	79.23	78.50	76.06	75.00