

# DECLARATION OF CONFORMITY

**MANUFACTURER : LS ELECTRIC Co., Ltd**

Cheon-An Plant, 56, Samseong 4-gil, Dongnam-gu, 31226,  
Cheonan-si, Chungcheongnam-do, Republic of KOREA

**Declare under our sole responsibility that the following apparatus:**

**Type of Equipment : Inverter(Power Conversion Equipment)**

**Model Name : LSLV-S100 series**

which this declaration relates to, when applied under the operating conditions given in the User Manual, comply with the CDM class IE2: losses more than 25% lower than RCDM value, according to the provisions of the following standard:

IEC 61800-9-2:2017	Adjustable speed electrical power drive systems - Part 9-2: Ecodesign for power drive systems, motor starters, power electronics and their driven applications - Energy efficiency indicators for power drive systems and motor starters
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**Done at Plant Cheon-An 18, June, 2021**

**Signatures :**

박 창 근 2021. 5. 20

**Mr. Chang Keun Park / Senior Manager**

# Technical Document of ECO Design

For the determination of the IE class, the power losses of VSDs is determined according to the input-output method.

When applied under the operating conditions given in the User Manual and the power losses Measurement Test, this Model comply with the CDM class IE2 as shown in Table 1.

## ※ Conditions of the power losses Measurement Test

<b>1. Rated Power Supply Voltage</b>
- 1 Phase 200~240VAC(-15% ~ +10%)
- 3 Phase 200~240VAC(-15% ~ +10%)
- 3 Phase 380~480VAC(-15% ~ +10%)
<b>2. Rated Power Supply Frequency : 50 ~60Hz(±5%)</b>
<b>3. Carrier Frequency : Default value</b>
<b>4. Load Current : HD Rated Output Current</b>
<b>5. Operation at room temperature</b>

Model Name : LSLV-S100 series

**Table 1. IE Class of the CDM**

Voltage (V)	Series	Model Name	Rated Power (kW)	HD_Rated output current (A)	ND_Rated output current (A)	S <sub>r,requ</sub> (kVA)	Standby Loss (W)	Relative losses of the CDM(%)								PL <sub>CDM</sub> / PL <sub>RCDM</sub> (%)	IE Class of the CDM
								Point1 (0,25)	Point2 (0,50)	Point3 (0,100)	Point4 (50,25)	Point5 (50,50)	Point6 (50,100)	Point7 (90,50)	Point8 (90,100)		
240	S100	LSLV0004S100-1	0.4	2.5	3.1	1.0	12.6	0.9%	1.0%	1.1%	0.9%	1.0%	1.2%	1.1%	1.3%	12.2%	IE2
240	S100	LSLV0008S100-1	0.75	5	6	2.1	12.6	0.8%	0.9%	1.0%	0.8%	0.9%	1.1%	1.0%	1.2%	14.9%	IE2
240	S100	LSLV0015S100-1	1.5	8	9.6	3.3	12.6	0.6%	0.7%	1.1%	0.6%	0.8%	1.2%	0.9%	1.4%	21.5%	IE2
240	S100	LSLV0022S100-1	2.2	11	12	4.6	12.6	0.6%	0.7%	1.1%	0.6%	0.8%	1.3%	0.9%	1.5%	23.3%	IE2
240	S100	LSLV0004S100-2	0.4	2.5	3.1	1.0	12.6	0.9%	0.9%	1.1%	0.9%	1.0%	1.2%	1.0%	1.3%	11.9%	IE2
240	S100	LSLV0008S100-2	0.75	5	6	2.1	12.6	0.8%	0.9%	1.0%	0.8%	0.9%	1.1%	0.9%	1.2%	14.5%	IE2
240	S100	LSLV0015S100-2	1.5	8	9.6	3.3	16.8	0.6%	0.7%	1.0%	0.6%	0.7%	1.2%	0.8%	1.4%	20.8%	IE2
240	S100	LSLV0022S100-2	2.2	11	12	4.6	16.8	0.6%	0.7%	1.1%	0.6%	0.8%	1.2%	0.9%	1.4%	22.6%	IE2
240	S100	LSLV0037S100-2	3.7	16	18	6.7	18.9	0.6%	0.7%	1.1%	0.7%	0.8%	1.3%	0.9%	1.6%	25.9%	IE2
240	S100	LSLV0040S100-2	4.0	17	18.0	7.1	18.9	0.6%	0.7%	1.1%	0.6%	0.8%	1.3%	0.9%	1.5%	25.4%	IE2
240	S100	LSLV0055S100-2	5.5	24	30	10.0	23.2	0.6%	0.7%	1.0%	0.6%	0.7%	1.2%	0.8%	1.4%	25.4%	IE2
240	S100	LSLV0075S100-2	7.5	32	40	13.3	23.2	0.6%	0.7%	1.0%	0.6%	0.7%	1.2%	0.8%	1.4%	26.0%	IE2
240	S100	LSLV0110S100-2	11	46	56	19.1	23.2	0.4%	0.5%	0.8%	0.4%	0.6%	1.0%	0.7%	1.3%	24.4%	IE2
240	S100	LSLV0150S100-2	15	60	69	24.9	23.2	0.4%	0.5%	0.8%	0.4%	0.6%	1.0%	0.6%	1.2%	24.2%	IE2
480	S100	LSLV0004S100-4	0.4	1.25	1.56	1.0	12.6	0.8%	0.9%	1.1%	0.9%	1.0%	1.1%	1.0%	1.3%	11.5%	IE2
480	S100	LSLV0008S100-4	0.75	2.5	3.1	2.1	12.6	0.8%	0.9%	1.0%	0.8%	0.9%	1.1%	0.9%	1.2%	14.5%	IE2
480	S100	LSLV0015S100-4	1.5	4	5	3.3	16.8	0.6%	0.7%	1.0%	0.6%	0.7%	1.2%	0.8%	1.4%	20.8%	IE2
480	S100	LSLV0022S100-4	2.2	5.5	6.9	4.6	16.8	0.6%	0.7%	1.1%	0.6%	0.8%	1.2%	0.9%	1.4%	22.6%	IE2
480	S100	LSLV0037S100-4	3.7	8	10	6.7	21.0	0.6%	0.7%	1.1%	0.6%	0.8%	1.3%	0.9%	1.5%	25.0%	IE2
480	S100	LSLV0040S100-4	4.0	9	10.0	7.5	21.0	0.6%	0.7%	1.1%	0.6%	0.8%	1.2%	0.9%	1.4%	24.0%	IE2
480	S100	LSLV0055S100-4	5.5	12	16	10.0	25.8	0.6%	0.7%	1.0%	0.6%	0.8%	1.2%	0.9%	1.4%	26.4%	IE2
480	S100	LSLV0075S100-4	7.5	16	23	13.3	25.8	0.6%	0.7%	1.0%	0.6%	0.7%	1.2%	0.8%	1.4%	26.0%	IE2
480	S100	LSLV0110S100-4	11	24	30	20.0	25.8	0.5%	0.6%	0.9%	0.5%	0.7%	1.1%	0.7%	1.4%	27.3%	IE2
480	S100	LSLV0150S100-4	15	30	38	24.9	25.8	0.5%	0.6%	1.0%	0.5%	0.8%	1.2%	0.8%	1.5%	30.3%	IE2
480	S100	LSLV0185S100-4	18.5	39	44	32.4	25.8	0.5%	0.6%	0.9%	0.5%	0.7%	1.1%	0.7%	1.4%	28.1%	IE2
480	S100	LSLV0220S100-4	22	45	58	37.4	25.8	0.4%	0.6%	0.9%	0.5%	0.7%	1.1%	0.7%	1.4%	27.8%	IE2
480	S100	LSLV0300S100-4	30	61	75	50.7	53.5	0.4%	0.5%	0.9%	0.4%	0.6%	1.0%	0.6%	1.4%	28.6%	IE2
480	S100	LSLV0370S100-4	37	75	91	62.4	53.5	0.4%	0.5%	0.8%	0.4%	0.6%	1.0%	0.6%	1.3%	27.5%	IE2
480	S100	LSLV0450S100-4	45	91	107	75.7	53.5	0.4%	0.5%	0.9%	0.4%	0.6%	1.0%	0.6%	1.3%	27.9%	IE2
480	S100	LSLV0550S100-4	55	110	142	91.5	53.5	0.3%	0.5%	0.8%	0.4%	0.5%	0.9%	0.6%	1.2%	25.6%	IE2
480	S100	LSLV0750S100-4	75	152	169	126.4	53.5	0.3%	0.5%	0.8%	0.4%	0.5%	0.9%	0.6%	1.2%	28.9%	IE2