

2023009



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1.	3
1.1.	3
1.1.1.	3
1.1.2.	3
1.1.3.	3
1.2.	4
1.2.1.	4
1.2.2.	4
1.2.3.	4
1.2.4.	4
1.2.5.	5
1.2.6.	5
2.	6
2.1. []	6
3.	8
3.1 LCA	8
3.2	8
3.3	10
4.	12
4.1.	12
4.2.	12
4.3.	12
4.4.	12

1.

1.1.

1.1.1.

ZA-RV,ZA-RVV,ZA-RVV22,WDZN-RY,WDZCN-RYY,WDZCN-RYY23

450/750V, 0.6/1kV

1C 1.5 500mm², 1C 4 500mm²,2C,3C,4C,5C 2.5 300mm²,
2C,3C,4C,5C 10 300mm²

ZA-RVV

0.6/1kV

1C 1.5 500mm², 2C,3C,4C,5C 2.5 300mm²

ZA-RVV 0.6/1KV 1 × 240

1.1.2.

1km

1.1.3.

1 2022

2

1.2.

1.2.1.

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1.2.2.

● 1% 0.1%

5%

●

●

●

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1.2.3.

1.2.4.

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	kg CO2 eq.	CO ₂ , CH ₄ , N ₂ O...
	MJ	, , ...
	kg Sb eq.	, , ...
	kg	, , ...
	kg SO ₂ eq.	SO ₂ , NO _x , NH ₃ ...
	kg PO ₄ ³⁻ eq.	NH ₃ NH ₄ -N COD...
	kg PM _{2.5} eq.	CO, PM ₁₀ , PM _{2.5} ...
	kg CFC-11 eq.	CCl ₄ , C ₂ H ₃ Cl ₃ , CH ₃ Br...
	kg NMVOC eq.	C ₂ H ₆ , C ₂ H ₄ ...
eq	equivalent	CO ₂

CO₂

Product Carbon Footprint, PCF

kg CO₂ eq.

1.2.5.

LCA

CLCD

CLCD

LCA

1.2.6.

eFootprint

LCA

eFootprint

LCA

CLCD

ELCD

Ecoinvent

CLCD

CLCD

eFootprint

xxLCA

-

(

[]

GB/T467-
2010
A

CLCD-Chin
a 0.9

			99.95%)	
	[]	(1.6 625)	hly1271763581@163.com 1.0	
	[]	()	yxt@ike-global.com 1.0	
	[]	(0.07-0.1mm)	09203614@cumt.edu.cn 1.0	
	[]	()	CLCD-China-ECER 0.8	
	[]	()	lcacontest-so20p@ike-global.com 1.0	
	[]	()	caixr7@mail2.sysu.edu.cn 1.0	
		6		
	[]	LCA ()	jingjingliu25@163.com 1.0	

2.

2.1. []

1

[]

- - -

2

2022

70

70

24000km

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	1	km	--	--
/	1,967.3	kg	CLCD-China	
			0.9	
/	6.1	m2	hly1271763581	
			@163.com 1.0	
/	266	kg	yxt@ike-globa	
			l.com 1.0	
r ^ /	155.5	kg	09203614@cumt	
			.edu.cn	
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			00co]	

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3.05Kg	105km	8t -
1967.3Kg	71km	8t -
266Kg	777km	8t -

CLCD

3.

LCA	eFootprint	1km	LCA
(GWP)	(PED)		(ADP)
(AP)	(EP)	(RI)	(ODP)
(POFP)			
. LCA			
GWP	kg CO2 eq	3.29E+04	
PED	MJ	5.82E+05	
ADP	kg antimony eq.	10.03	
WU	kg	1.20E+08	
AP	kg SO2 eq	132.02	
EP	kg P043-eq	24.73	
RI	kg PM2.5 eq	40.31	
ODP	kg CFC-11 eq	2.28E-04	
POFP	kg NMVOC eq	16.75	

3.2

. LCA

3.29E +04	5.82 E+0 5	10.03	1.20E+08	132.02	24.73	40.31	2.28E-04	16.75
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3.3

0.5%

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69.76%	63.36%	0.33%	99.23%	91.75%	56.24%	94.35%	28.58%	56.89%
	34.17%	99.63%	0.77%	5.92%	42.51%	2.68%	35.87%	5.39%
	2.02%	0.03%	6.01E-03	1.47%	0.73%	2.25%	31.15%	26.2/ 0 2
			%					

		0.03%	0.04%	5.48E-03%	6.14E-06%	0.03%	0.05%	0.02%	0.8%	0.17%
		0.02%	0.02%	2.31E-04%	9.46E-05%	0.03%	0.02%	0.03%	0.11%	0.08%
-	8t -	1.03E-04%	1.14E-04%	2.31E-06%	4.89E-08%	2.66E-04%	2.37E-04%	1.65E-04%	2.57E-03%	8.40E-03%
		0%	0%	0%	-1.81E-06%	0%	0%	0%	0%	0%
		0%	0%	0%	0%	0%	0%	0%	0%	0%

4.

4.1.

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[]		

4.2.

		.
		0

$$\begin{array}{ccccccc} * & & = & & * & / & \\ * & & & & = & & + \end{array}$$

4.3.

CLCD eF

. LCA

4.4.

1km

	eFootprint	LCA	LCA
	(GWP)	(ADP)	(PED)
(WU)	(AP)	(EP)	(RI)
(ODP)	(POFP)	LCA	

LCA eF 1km
3.29E+04 kg CO2 eq.