



产 品 规 格 确 认 书

APPROVAL SHEET

客 户:

CUSTOMER:

产品名称:

DC-Link 电容器 DC-link Capacitor

PART NAME:

型号规格:

MKP-LL 300 μ F \pm 5% 900V.DC

TYPE:

创格物料编码

C307090051104

CGE PN:

客户物料编码

Customer PN:

日 期:

DATE:

备 注:

NOTE:

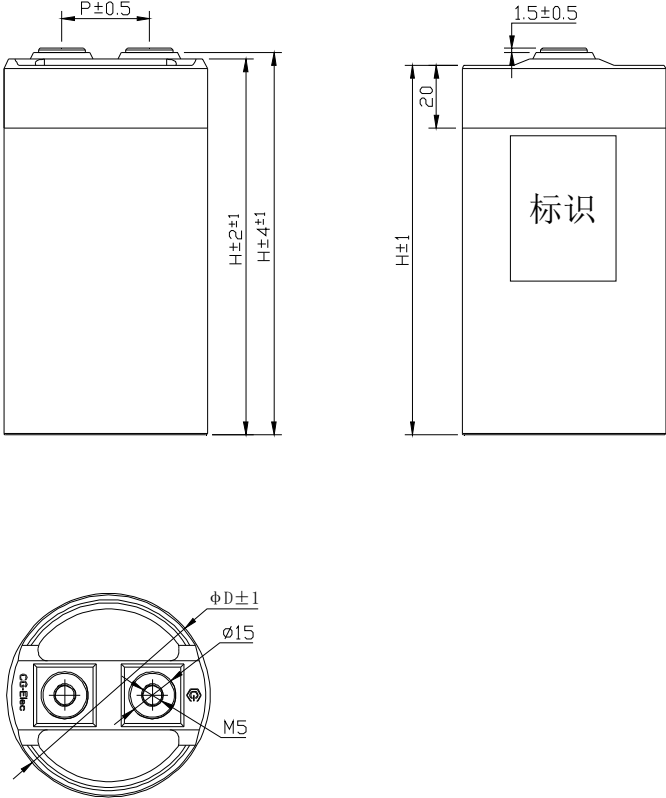
供 方 确 认			客 户 确 认
拟 制	审 核	批 准	审 核
朱崇佳	季武强	宋治根	

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	Date	2022-04-07		
修订记录 Revision record				
No.	Description of revised contents	Revised by / time	Ver.	remarks
1	Initial version	朱崇佳 2022.03.21	A/0	

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1. Product outline dimension drawing Unit:mm

1.1 Outline drawing (Unspecified tolerance: $\pm 0.5\text{mm}$)



1.2 Dimension parameter table

Cn (μ F)	Un (V.DC)	Size			Electrical parameters					
		Φ (mm)	H (mm)	P (mm)	I _{max} (A) 60℃	ESR (m Ω) 1kHz	ESL (nH)	\hat{I} (A)	\hat{I}_s (A)	Us (V.DC) T<100ms
300	900	65	118	28	20	<3.0	<40	1500	4500	1400

2 Product characteristics

- Metallized polypropylene film, non inductive winding structure
- It has the characteristics of small volume, large capacity, good overcurrent capacity, small stray inductance and equivalent series resistance
- It is easy to install and replace aluminum electrolytic capacitor. Widely used in wind energy, photovoltaic, SVG, frequency converter and other medium and large-scale

DC filtering and support of inverter system

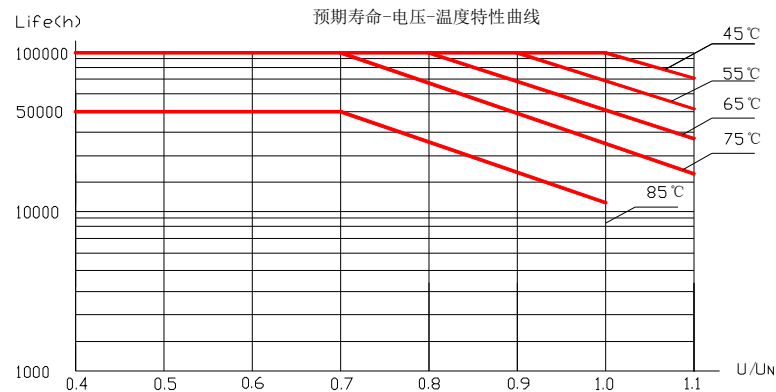
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3. 基本技术参数

项目/ITEMS	性能/ PERFORMANCE	
Reference to relevant standards	GB/T 17702-2021 IEC 61071:2017	
●Electrical parameters		
Overvoltage	1.5 Urms is less than 1000 times in the service life, and the time of each time is less than 30ms	
	1.3 Urms shall not exceed 1min per day	
	1.2 Urms shall not exceed 5min per day	
	1.15 Urms no more than 30min per day	
	1.1 Urms less than 30% load working time	
Dielectric loss tangent tgδ0	≤0.0002	
Tangent of loss angletgδ	≤0.0015 100Hz	
Insulation resistance between poles IR	IR×C>10000s	(20±5℃, 500V.DC, 60s)
Interelectrode withstand voltage Utt	1.5Un.DC (60s, 50Hz, 20±5℃)	
Withstand voltage of pole shell Utc	2Ui+1000V.AC 或 2000V.AC Take the maximum value (60s, 50Hz, 20±5℃) Ui=Un/√2	
Creepage distance	≥17mm	
Electrical clearance	≥13mm	
Expected working life	100000h @ θ h. s. ≤70℃	
●Environmental parameters		
Climate category	40/70/56	
ambient humidityRH	RH: 0~95%	
working temperature θ hs	-40℃ to 70℃	
Storage temperature θ s	-40℃ to 85℃	
Altitude	<4000m(If it exceeds 4000m, the influence of low air pressure on electrical performance shall be considered)	
●Mechanical parameters		
Medium material	Metallized polypropylene film	
Packaging materials	epoxy resin	
Shell	Metal primary color aluminum shell, cyan built-in cover	
Outgoing terminal	Silver plated copper nut	
Maximum terminal torque	M6: 3.0N.m	
Explosion proof grade	P0	
Explosion proof device	UL94V-0	
failure rate	<100fit	

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4. Life expectancy characteristic curve



Note: in the application of capacitors, there are many factors that will affect the service life of capacitors. Such as voltage, temperature, humidity, ripple, light, radiation and other factors. Among them, voltage, temperature and humidity are the most basic factors. Among the factors listed above, in addition to voltage, other factors will eventually show the rise of the internal temperature of the capacitor. The curve above shows the relationship between the service life of the capacitor and temperature and voltage. The temperature is marked as the hottest spot temperature of the capacitor for reference only.

5. Laser marking style


 CG-Elec



 E228621

MKP-LL
 300 μ F \pm 5%
 900V. DC 20A
 40/70/56 P0 SH

佛山市顺德区创格电子实业有限公司
 FOSHAN SHUNDE CHUANGGE ELECTRONIC INDUSTRIAL CO., LTD.
 www.cgegd.com

表号-序号
 物料编码

Identification description

identification	explain	identification	explain
	CGE Logo	MKP-LL	Product model
300 μ F	Rated capacity	\pm 5%	Capacity deviation
900V. DC	Rated voltage	20A	Maximum current
40/70/56	Climate category	P0	Explosion proof grade
SH	Self healing capacitor mark	Table No. - serial number	Production product traceability code
Material code	Product code		UL Certification

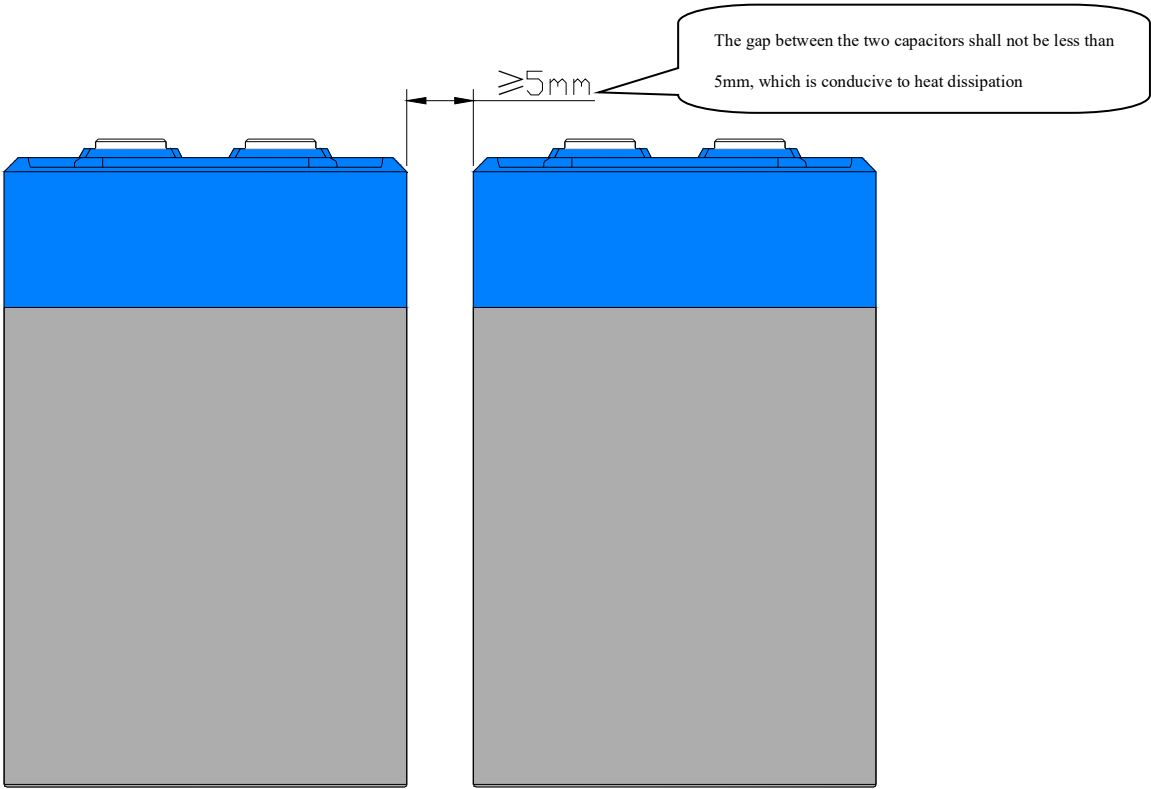
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6. Warehousing inspection

Inspection items	Inspection level	
	IL	AQL
Appearance inspection	II	[0, 1]
Dimensional inspection	II	[0, 1]
Interelectrode withstand voltage	II	[0, 1]
Polar shell withstand voltage		
Tangent value of capacity and loss angle		
insulation resistance		
ESR		
Remarks: refer to relevant provisions in GB / T 17702 for type test		

7. Installation mode

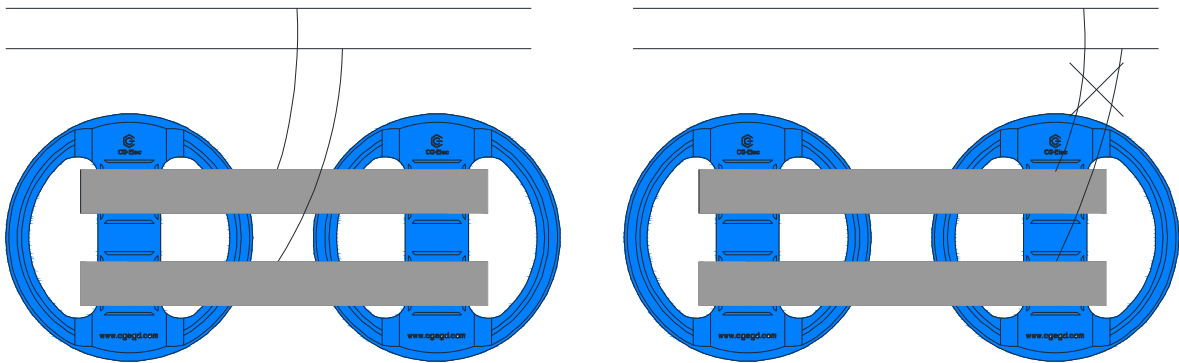
- The capacitor shall be installed in a cool and well ventilated place, and there shall be no heat radiation devices around it
- Copper screws and copper gaskets shall be used for locking. The length of screws shall be reasonably selected to avoid being too long or too short, and the locking shall prevail
- When multiple capacitors are installed side by side, sufficient heat dissipation space shall be reserved between the two capacitors



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● When multiple capacitors are used in parallel, composite copper bars or copper sheets are used for connection. The outgoing end of the bus shall not be connected with any capacitor terminal to avoid overheating of the bus terminal

● During installation, try to ensure that the distance between the outgoing end of the bus and each capacitor is the same, so as to avoid overheating of products close to the bus end



8. Safety precautions

- The capacitor shall be well grounded
- When disassembling and assembling the capacitor, make sure that the capacitor has been discharged clean.
- Pay attention to check whether the mounting screws are locked to avoid ignition caused by loose electrode pieces
- Clean the outgoing terminals regularly to avoid short circuit caused by dust or other conductive garbage