# SPECIFICATION

# APPROVAL SHEET

CUSTOMER:

**PRODUCTS:** AKMJ series AC Capacitor (single phase)

**CATEGORY:** 450μF 510Vac **ORDERING CODE:** 457J511A51501

CUSTOMER CODE:

**DATE:** Oct 24<sup>th</sup>, 2022 (Ver 0)

本記印/APPROVAL STATE OF PARTY OF THE PROPERTY O					
供方/VENDER		多戶 /CHSTORER			
Design	Audit	NOCOTO NOCOTO			
JJ.C Oct.24th, 2022	D.H Oct. 24th, 2022	Contract			

Specification Revisions:

Revision Level	Revision Change	Date	Initials

# CABO ELECTRONICS(FOSHAN) LIMITED

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A Hi-Reliability capacitor brand of China FIDER

Failure Rate ≤50FIT | 100% Tested Before Delivery

技術圖紙請勿外傳!該產品引用了多項自主技術專利。CABO 保留追究一切技術圖紙外流導致損失的權利。 Confidential and invention patents are contained in CABO solution, disclosure or distribution of this specification is prohibited.

### **SPECIFICATION**

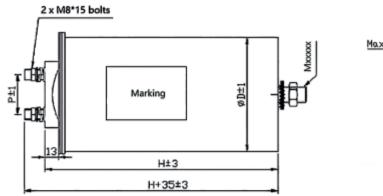


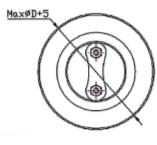
承認書

CABONIX

# **AKMJ** series single phase AC Capacitors

450µF510Vac Ordering code:457J511A51501





Capacitance	Unac	U <sub>rms</sub>	ΦD	Н	Р	Mxxxxx
(µF)	(Vac)	(Vac)	(mm)	(mm)	(mm)	IVIXXXX
450	510	360	86	290	30	M12*16

Dimensions in mm, unspecified dimensions tolerance ±1mm

# 技術參數 Technical specification

Electrical Characteristics				
Capacitance (C <sub>n</sub> )	450 µF @100Hz			
Capacitance tolerance	±5%(J) @100Hz			
Rated Voltage (Un)	510 Vac			
RMS Voltage (U <sub>rms</sub> )	360 Vac			
Rated Current (I <sub>max</sub> )	59 A			
Peak Current (Ipk)	3.6k A			
Surge Current (I₅)	10.8k A			
Dissipation Factor	tgō≤0.002 @ 100Hz			
Equivalent Series Resistance	≤2.1mΩ @10kHz			
Insulation Resistance (R <sub>i</sub> )	R <sub>i</sub> *C≥5000s @100V, 1min			
Operating Temperature (T <sub>w</sub> )	-40~+85℃*			
Storage Temperature (T₅)	-40~+85℃			
Life expectancy	≥100,000 Hrs @U <sub>rms</sub> , θ <sub>hotspot</sub> ≤70°C			
Altitude	≤2000m			
Mechanical and test parameters				
Test voltage - terminals(Utt)	1.5U <sub>rms</sub> 5s			
Test voltage - terminal/case (Utc)	3000Vac 10s @50Hz			
Shell material	Aluminum shell			
Electrode terminals	M8*15 bolts with installing parts			
Dielectric medium	Metallized PP film, self-healing			
Safety design	Over pressure disconnector inside			
Max torque terminals pottom bolt	6.2N.m / 10N.m			
Fire resistance	UL 94 V-0			

<sup>+70°</sup>C to +85°C: degreasing factor 1.5% per C for Urms(ac)

肯博電子(佛山)有限公司

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VER 0

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承認書

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#### 引用標準 Reference standard

IEC61071-1/2, UL810, UL94, CABO Internal Standard

### 包裝與運輸 Packing and shipment

The capacitors are packed into a cardboard box, any kinds of shipment are permitted. But the sprinkle of rain or snow and mechanical damage must be avoided.

### 標識 Marking

The capacitor is marked by laser print or stamp or adhesive label, With following information:

- 1.Rated capacitance value (450µF)
- 2.Rated voltage (510Vac)
- 3. Tolerance on rated capacitance (J: ±5%)
- 4.Part number (Code for ordering 457J511A51501)
- 5.Trace code and serial number (MFR-WEEK-SN)



450µF±5% 510Vac 457J511A51501 MFR-WEEK-SN www.cabonix.com

### 提醒和警示 Cautions and Warnings



- (1) Caution the installing direction:
- (2) Overpressure disconnector inside, at least 30mm is necessary at the top space after the capacitors installed.
- (3) Pay attention to the application when the altitude over 2000m, it will affect the insulation and cooling of the capacitor.
- (4) The capacitor have not discharge resistors between terminals, so the energy stocked in the capacitor may be lethal, before handle capacitors please discharge through resistor, short-circuit the capacitor is not permit.
- (5) Check thickness of the connections/terminals periodically.
- (6) Do not use or store capacitors in corrosive atmosphere, especially where chloride gas, sulfide gas, acid, alkali, salt or the like are present. In the dusty environment regular maintenance and cleaning especially of the terminals is required to avoid conductive path between phases.
- (7) Maximum permissible voltages, Maximum within one day: (1.1U<sub>n</sub>, 30% of on-load duration) (1.15U<sub>n</sub>, 30min) (1.2U<sub>n</sub>, 5min) (1.3U<sub>n</sub>, 1min) (1.5U<sub>n</sub>, 100ms).
- (8) All the data measured at Room Temperature(R.T. 23±8℃) unless otherwise specified.
- (9) CABO is not responsible for any damages, which are caused by the improper installation and application. Before using the capacitor in any application, please read carefully this technical data-sheet.
- (10) Specifications are subject to change without prior notice. Don't hesitate to contact us for any doubts and more detail information.



