



**CAPACITOR  
COMPETENCE**  
*since 1958*

ALUMINUM ELECTROLYTIC CAPACITORS

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ALUMINUM ELECTROLYTIC CAPACITORS · SNAP-IN TYPE

# CD 294 BW SERIES

**JIANGHAI EUROPE**  
Electronic Components GmbH

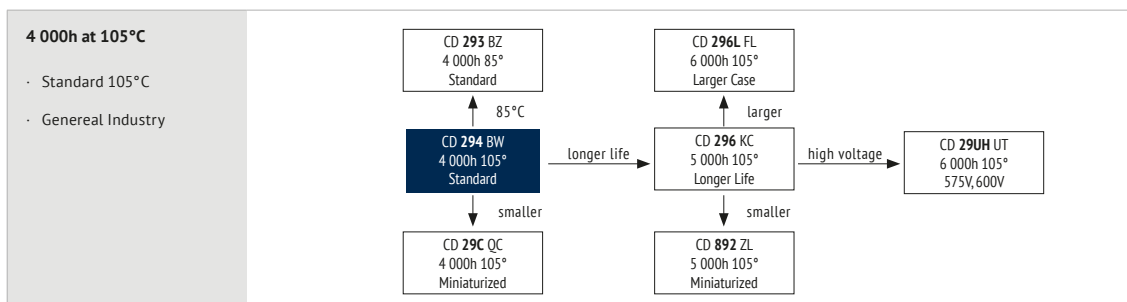


ENGINEERED SOLUTIONS

v2019.1

# CD 294 BW SERIES

## ALUMINUM ELECTROLYTIC CAPACITORS · SNAP-IN TYPE



### ITEM CHARACTERISTICS

Operating Temperature Range (°C)	-40 ~ +105	-25 ~ +105
Voltage Range (V)	16 ~ 100	160 ~ 550
Capacitance Range (µF)	39 ~ 47 000	
Capacitance Tolerance (20°C, 120Hz)	± 20%	

**!** The usage at lower temperatures than indicated may be possible. Please contact the Jianghai Europe sales office for approval.

Leakage Current: After 5 minutes at 20°C application of rated voltage, leakage current is not more than specified in table.

Stability at Low Temperature (Impedance Ratio at 120Hz)	Rated Voltage (V)	16 ~ 100	160 ~ 200	250 ~ 550
	$Z_{-25°C} / Z_{+20°C}$	4		
	$Z_{-40°C} / Z_{+20°C}$	15	-	

Fast Charge-Discharge: **!** Please contact Jianghai for an appropriate choice of the capacitor or possible technical adaptations, esp. for applications like: Welding, Photoflash, Servo motors, X-Ray

### ITEM USEFUL LIFE LOAD LIFE ENDURANCE TEST SHELF LIFE

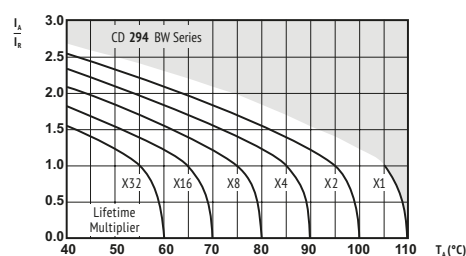
Lifetime	4 000h	> 180 000h	2 000h	3 000h	1 000h
Leakage Current	Not more than specified value		Not more than specified value	Not more than specified value	Not more than specified value
Capacitance Change	Within ± 30% of initial value		Within ± 20% of initial value	Within ± 20% of initial value	Within ± 20% of initial value
Dissipation Factor	Not more than 300% of specified value		Not more than 200% of specified value	Not more than 200% of specified value	Not more than 200% of specified value
Condition:	$U_R$	$U_R$	$U_R$	$U_R$	$U_R = 0$
Applied Voltage					
Applied Current	$I_R$	$1,4 \times I_R$	$I_R$	$I_R = 0$	$I_R = 0$
Applied Temperature	105°C	40°C	105°C	105°C	105°C
				IEC 60384	After test: $U_R$ to be applied for 30 min > 24h before measurement

### MULTIPLIER FOR RIPPLE CURRENT (FREQUENCY COEFFICIENT)

Rated Voltage (V)	Frequency					
	50Hz	120Hz	300Hz	1kHz	10kHz	≥ 50 kHz
≤ 100	0,95	1,00	1,07	1,13	1,19	1,20
160 ~ 250	0,87	1,00	1,17	1,32	1,45	1,50
≥ 315	0,80	1,00	1,16	1,30	1,41	1,43

Multipliers for typical operating conditions.

### MULTIPLIER FOR LIFETIME (LIFETIME DIAGRAM)



$I_a$  = actual ripple current at 120Hz,  
 $I_R$  = rated ripple current at 120Hz, 105°C  
 Multiplier of Useful Life as a function of ambient temperature & ripple current load

### ENVIRONMENTAL

The products are RoHS, WEEE and REACH compliant. The detailed version please see separate "Environmental Certificates" document or [www.jianghai-europe.com](http://www.jianghai-europe.com)

### ! SAFETY FACTOR

This diagram includes a safety margin. In many cases the allowed current capability/lifetime may be increased. For details and approvals please contact the Jianghai Europe sales office.

## JIANGHAI EUROPE

Electronic Components GmbH



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Customer specific adaptations needed? Please contact Jianghai Europe GmbH:  
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Table with columns: U\_RDC, C\_R, ESR\_max, ESR\_typ, tanδ, I\_leak, I\_RAC, Size, ORDER CODE. Includes sub-tables for U\_RDC (100, 100, 160, 200) and U\_RDC (200).

Table with columns: U\_RDC, C\_R, ESR\_max, ESR\_typ, tanδ, I\_leak, I\_RAC, Size, ORDER CODE. Includes sub-tables for U\_RDC (200, 250, 250, 250), U\_RDC (350), U\_RDC (350), U\_RDC (350), U\_RDC (350), U\_RDC (350), U\_RDC (350), U\_RDC (350).

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