

# 12/24/36 kV OUTDOOR-TYPE CURRENT TRANSFORMERS *for Revenue Metering*



Also as **Extended Range Current Transformers (ERCT)**

**AWF-12 AWF-24 AWF-36**

## Introduction

Intended for 12, 24, or 36 kV power systems, these outdoor-use current transformers for revenue metering are insulated with Araldite® UV-resistant cycloaliphatic epoxy resin. Able to withstand solar ultraviolet radiation without deterioration in electrical performance, these current transformers are suited to long-term outdoor usage.

This product range has been supplied to power companies in numerous countries of tropical maritime climate, where these current transformers have been exposed to high moisture and salt spray for more than 20 years while continuing to function with stable quality.

AWF 12, AWF-24, and AWF-36 current transformers are available in various classes of accuracy (0.15S, 0.15, 0.2S, 0.2, and 0.3) and have a burden rating of B-0.5. In addition, they can be offered as Extended Range Current Transformers (ERCT)\* if requested by the customer.

Mainly used as part of an MOF (Metering Outfit), these current transformers can also be used for current monitoring purposes.

## Common Specifications

- Standard: IEC or IEEE
- Outdoor usage; Epoxy-cast type (Cycloaliphatic Resin)
- Frequency: 50 or 60 Hz
- System Voltage: 12~36 kV
- Rated Primary Current: 50~600 A
- ERCT\* available by request

\* The ERCT specifications enable the CT to maintain its rated accuracy and burden rating while measuring 1%~150% (or even 400%) of its rated current, surpassing the usual metering-class requirement (5%~100%).

## Selection Table

Model	System Voltage (kV)	Primary Current (A)	Secondary Current (A)		Accuracy and Burden	Ith (Max.)	AC/BIL (kV)	Num. of Cores	Approx. Weight (kg)	Creepage (mm)	Design
			Core 1	Core 2							
AWF-12	≤ 15.5	50~600	5/1	-	0.15S B-0.5 0.3 B-0.5 or <b>RF=2.0 (ERCT)</b>	24 kA / 1S	34 / 110	1	19	600	Fig. 1
AWF-24	≤ 25.5	50~600	5/1	-	0.15S B-0.5 0.3 B-0.5 or <b>RF=2.0 (ERCT)</b>		50 / 150	1	20	600	
AWF-24-1	≤ 25.5	50~600	5/1	-	0.3 B-0.5 0.15S B-0.5 or <b>RF=2.0 (ERCT)</b>			1	22	980	Fig. 2
AWF-24-2	≤ 25.5	50~600	5/1	5/1	0.15 B-0.5 + 0.15 B-0.5 or <b>RF=2.0 (ERCT)</b>			2	31	700	
AWF-24-3	≤ 25.5	50~600	5/1	5/1	0.15S B-0.5 + 0.15S B-0.5 or <b>RF=2.0 (ERCT)</b>		2	31	972		
AWF-36-1	≤ 36.5	50~250	5/1	-	0.15S B-0.5 or <b>RF=2.0 (ERCT)</b>	25 kA / 1S	70 / 200	1	38	1150	Fig. 3
AWF-36-2C	≤ 36.5	50~400	5/1	-	C200 50VA			1	80	1150	
AWF-36-2C	≤ 24	50~400	5/1	5/1	30VA/10P20 + 100VA/10P20		50 / 125	2	84	1150	

Note: Other standards and specifications available.



Fig. 1



Fig. 2



Fig. 3



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