

# Average rectifier type current converter

## Current converter integrated sensor and converter 10A ~ 50A

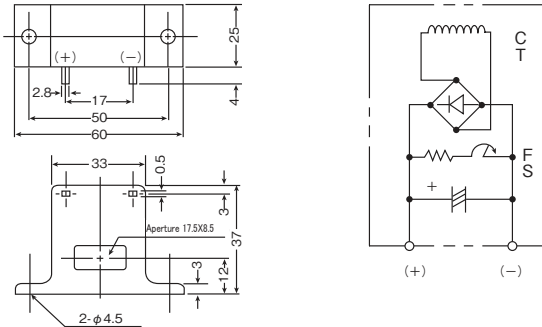


Model CTU-8-CV series

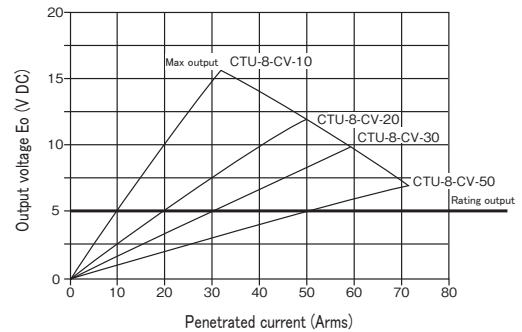
### [Feature]

- Average rectifier type current converter of AC current detection and DC voltage output
- High reliability with sensor and converter integral structure
- Unnecessary of external associated circuit
- Possible to measure with isolation
- Excellent linearity of the range more than 1 : 100

[Outline drawing · Connection]



[Output voltage characteristic]



### [Specification] Ta=25°C

Model	CTU-8-CV-10	CTU-8-CV-20	CTU-8-CV-30	CTU-8-CV-50
Rating current	10Arms (50/60Hz)	20Arms (50/60Hz)	30Arms (50/60Hz)	50Arms (50/60Hz)
Output voltage	0 ~ 5VDC/0 ~ rating current			
Maximum current	[Output voltage characteristics] 200% of max output range (1min)			
Linearity	±0.5% FS dynamic range 1:100 (50/60Hz sine wave)			
Output impedance	3.6k Ω (typ)	1.8k Ω (typ)	1.2k Ω (typ)	680 Ω (typ)
Response time	200ms (typ)	150ms (typ)	150ms (typ)	100ms (typ)
Output ripple	80mVp-p (typ)	100mVp-p (typ)	120mVp-p (typ)	200mVp-p (typ)
Withstand voltage	AC2000V(50/60Hz)、1min (Aperture-output terminal in a lump)			
Insulation resistance	DC500V, ≥100MΩ (Aperture-output terminal in a lump)			
Operating temperature	-20°C ~ +60°C, ≤80%RH, no condensation, for indoor assembly, free direction for setting			
Storage temperature	-30°C ~ +90°C, ≤80%RH, no condensation			
Output voltage adjustment	±10% (For calibration in the case of low impedance of the load side)			
Output terminal	2.8 X 0.5 X 5ℓ terminal			
Screw torque	0.7N · m			
Mass	approximately 60g			

### [Remark]

- (1) Corresponding to small current for rating current below 10A, current sensitivity to be N times with N turns of penetrated wire into sensor body
- (2) Specification is expressed the characterization based on 50/60Hz sine wave current. Corresponding to different waveform and frequency is necessary to be checked beforehand.
- (3) Because of relatively high output impedance, output interface is limited as high impedance specification
- (4) Recommend soldering for mounting