

Uses

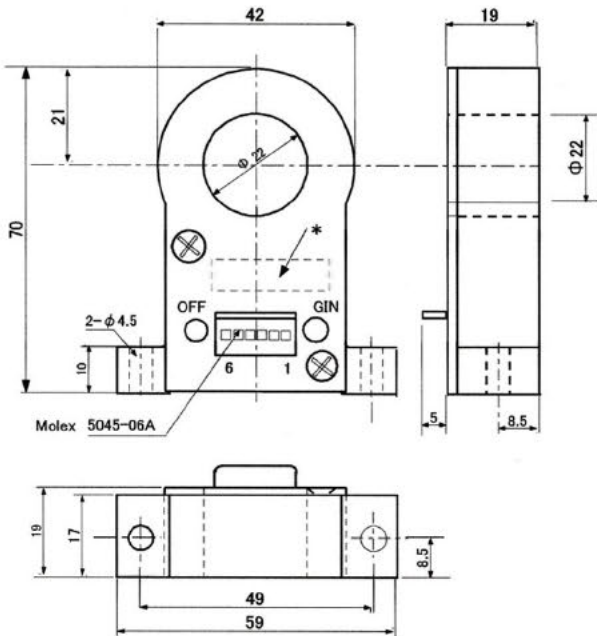
Power controllers

## Main Electrical Characteristics Main Specifications

Ta=25°C

Parameter	Symbol	Unit	Model		
			PWUS-1022S	PWUS-1052S	PWUS-11002S
Primary nominal current	If (n)	A	±20A	±50A	±100A
Measurable range	Ip	A DC	±2~±90	±5~±200	±10~±500
		Ap-p	1.5~70	3.5~140	7~360
Rated output voltage	Vout	V	2V±1% at If=If(n), Ic=3.5mA DC		
Linearity limits	εL	%	≤±1% of If(n)		
Supply voltage	Vcc	V	±12V ±5%		
Current consumption	Ic	mA	≤±15mA		
Ambient operating temp.	Ta	°C	-10°C~+60°C		
Ambient storage temp.	Ts	°C	-15°C~+80°C		

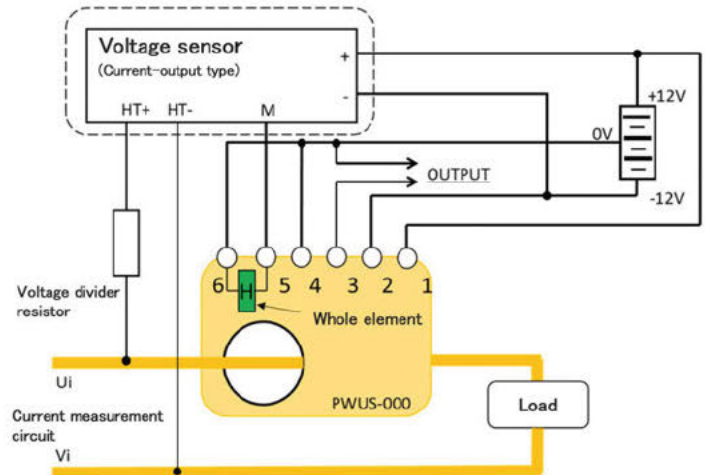
### PWUS-000 Outline Drawing (Unit: mm)



#### Terminal connection numbers

- 1: +12V
- 2: -12V
- 3: OUT PUT
- 4: 0V
- 5: Ic+

### System diagram for connection as electrical sensor



High-precision power measurements can be conducted through attaching a separate voltage sensor (power output type).  
 Power conversion system:  
 Input current:  $I_p = \sqrt{2} I_p \sin(\omega t - \phi)$  Input voltage:  $V = \sqrt{2} I_c \sin \omega t$   
 Output voltage:  $V_{out} = \{I_c \times I_p \cos \phi - I_c \times I_p (2\omega t - \phi)\}$