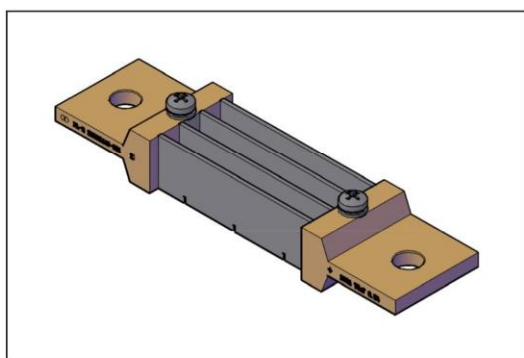
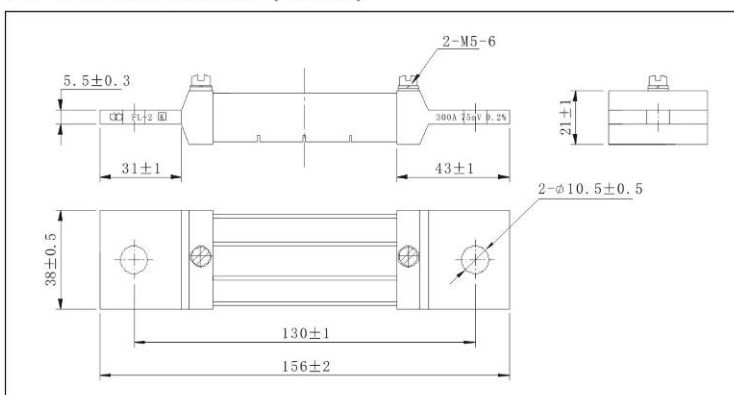


FL-2-K Precision shunts



Construction (mm)



Features

This product is mainly used for current sampling and detection of instrumentation, with high precision, strong stability, applicable to a wide range of temperatures, etc., widely used in the field of new energy state grid charging pile.

- Wide temperature range
- Low surface temperature
- Low temperature coefficient
- High precision
- The first wide-temperature shunt in China to be certified by the State Grid

Specification

Rated Current	300A
Rated Voltage	75mV
Accuracy Rating	0.2
Operating Temperature Range	-40°C ~ +70°C
Surface Temperature	≤ 140°C
Temperature Coefficient	≤ ± 50ppm/°C

Performance

Characteristics	Specifications	Test Methods
Error Consistency	$\Delta R \leq 0.1\%R$	Q/GDW11850-2018 Article 5.2.2.6 After thermal equilibrium with 1N is passed, measure the basic error of 3 test samples of the same specification from the same batch, $\Delta R = R_{max} - R_{min}$
Error Stability	$\Delta R \leq 0.1\%R$	Q/GDW11850-2018 Article 5.2.2.7 After thermal equilibrium with 1N is passed, the basic error is measured, and after natural cooling to room temperature, the second test is carried out under unchanged test conditions, and the absolute value of the difference between the two measurements is ΔR
Thermal Equilibrium Time	≤ 5min	Q/GDW11850-2018 Article 5.2.4.1 If the value of the change in the diverter error every one minute is ≤ 0.02% R, the diverter can be considered to have reached thermal equilibrium
Overload	$\pm 0.4\% (0.01IN < I \leq 0.05IN)$ $\pm 0.2\% (0.05IN < I \leq 1.2IN)$	Q/GDWW11850-2018 Article 5.2.4.2 Pass 2.25 times the rated current for 1.5s, naturally cool to room temperature, and then measure the basic error at the rated current
Low temperature small current	$\Delta R \leq \pm 0.4\%R$	Q/GDW11850-2018 Article 5.2.5.2 After the shunt is placed at -40°C ambient temperature for 30 min, after loading with 0.1 IN for 30 s-60 s, measure the shunt error, and the shunt error change limit ΔR
High temperature high current	$\Delta R \leq \pm 0.2\%R$	Q/GDW11850-2018 Article 5.2.5.3 After the shunt is placed at 70° C ambient temperature for 30 min, pass 1N to thermal equilibrium to measure the shunt error. Shunt error change limit ΔR