

# Precision High Power Metal Clad Shunt

Precision Metal Clad Resistors designed in four-terminal technique, are distinguished by high load capacity as well as excellent accuracy. Isolated voltage and current connections making them suitable for very precise current measurements. The simple four port Kelvin design ensures easy installation on large current bus bars. Units have a low inductance, heavy copper terminals. The main application is battery manufacturing test jig. **Application include** : Battery manufacturing test jig, current detection in precise power sources, constant current sources, industrial power conversion circuits, HEVs, fuel cells and constant electronic loads



## GENERAL SPECIFICATION

Model	Rated Current[A]	Rated Voltage[V]	Resistance Value[Ω]	Tolerance[%]
PHPS500F	400	0.1	0.2500m	D[±0.5]
	500	0.1	0.2000m	D[±0.5]
PHPS300F	300	0.1	0.3333m	D[±0.5]
	250	0.1	0.4000m	D[±0.5]
PHPS200F	250	0.1	0.4000m	D[±0.5]
	200	0.1	0.5000m	D[±0.5]
	150	0.1	0.6666m	D[±0.5]
	100	0.1	1.0000 m	D[±0.5]

## CHARACTERISTICS

Temperature Range		-55℃ ~ +200℃
Insulation Resistance		100MΩ minimum
Dielectric Withstanding Voltage		AC 1500V for 1 minute
Temp. Coefficient		Max. 15ppm/℃ [20℃ and 60℃]
Short Time Overload	[±0.3%]	5 X Power rating 5 sec.
Moisture Resistance	[±0.5%]	40℃, 95% RH, DC100V case to terminal, 500 hours
Thermal Shock	[±0.2%]	-65℃ 30 minutes, +90℃ 30 minutes 25 cycles
Vibration	[±0.2%]	10Hz-55Hz-10Hz(1 minute), 2 hours each direction
Moisture Load Life	[±0.5%]	40℃, 95% RH, 0.1X Power rating 1.5 hours on, 30 minutes off, 500 hours
Load Life	[±0.5%]	Power rating 1.5 hours on, 30 minutes off, 500 hours

## DIMENSIONS[mm]

Technical drawing showing dimensions in mm:  
 - 6.5φ 10 Slot  
 - 60±0.5 (total height)  
 - 40±0.5 (terminal height)  
 - 400±10 (total length)  
 - 4-φ6.0 holes (top terminal holes)  
 - φ6.5 holes (bottom terminal holes)  
 - 30±0.2 (terminal thickness)  
 - L1±1.5 (resistor length)  
 - L2±1.5 (terminal length)  
 - L3±2 (total length)  
 - 30±0.5 (bottom terminal height)  
 - Marking area

Model	L1±1.5	L2±2	L3±2
PHPS500F	316	335	395
PHPS300F	196	215	275
PHPS200F	146	165	225