Digital Voltmeter

MV507



48 x 48 mm

Features :

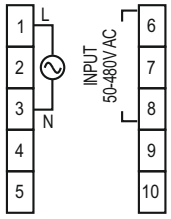
- 1Ø True RMS measurement
- 4 Digit 7 segment LCD display
- Analog style bargraph indication
- CE & RoHS Certified

Certifications : CE cULus LISTED

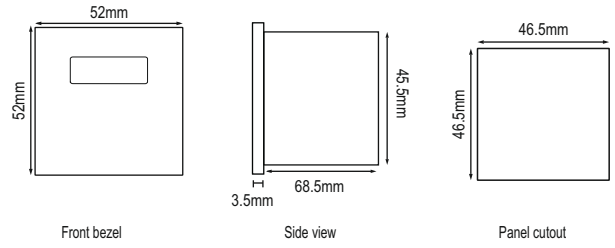
Technical specifications

Display specifications	
Display	7 Segment LCD
Digit	3
Display height	0.56” (14.2 mm)
Dispaly update time	1 Sec
Resolution	1V
Input specifications	
Electrical connection	1Ø-2 Wire
Input type	AC
Nominal input voltage ranges	50 to 480V AC, 11 to 300V AC (L-N)
Max continuous input voltage	516V
Accuracy	±0.5%
Electrical specification	
Input impedance	1MΩ (± 5%)
Nominal input voltage burden	<0.3VA Per phase
Over load withstand	2x Rated value for 1 second, Repeated 10 times at 10 second intervals
Installation category	III
High voltage test	3.3 kV AC, 50Hz for 1 minute
Warm up time	Minimum 3 minute
IP Protection	IP50
Auxiliary supply specification	
Auxiliary supply	240V AC ±20%, (50/60Hz), 110V AC ±20%, (60Hz)
Frequency range	50 to 60Hz
Power consumption	<5VA Max
Environment specifications	
Operating temperature	-10° to +55°C
Storage temperature	-20°C to +75°C
Relative humidity	Up to 95% RH (Non-condensing)
Pollution degree	2
Mechanical specifications	
Mounting	Panel mount
Bezel size	48mm x 48mm
Overall depth	68.5mm
Weight	165gm

Terminal connections



Dimensions (All are in mm)



Standards compliance

Applicable EMI / EMC Standards		
Product standard : IEC 61326 - 1		
Category	**Standards**	**Compliance**
ESD Immunity	IEC 61000 - 4 - 2	Level IV (Air discharge : 8kV), (Contact discharge : 4kV)
Surge immunity	IEC 61000 - 4 - 5	+ / - 2kV Common mode, (Line to ground)
Radiated susceptibility	IEC 61000 - 4 - 3	Level III, 80 to 1000MHz (10V / m) Level II, 1.4GHz to 2GHz (3V / m) Level I, 2GHz to 2.7GHz (1V / m)
Conducted susceptibility	IEC 61000 - 4 - 6	Level II (3V / m)
Voltage dips and interruptions	IEC 61000 - 4 - 11	**Dips :** 0% Residual voltage / 1 Cycle (Criteria B), 40% Residual voltage / 10 Cycles 50Hz / 12 Cycles 60Hz (Criteria C), 70% Residual voltage / 25 cycles 50Hz / 30 Cycles 60Hz (Criteria C) **Interruptions :** 0% Residual voltage / 250 Cycles 50Hz / 300 Cycles 60Hz(Criteria C)
Conducted emission	CISPR - 11	
Radiated emission	CISPR - 11	
Electrical fast transient	IEC 61000 - 4 - 4	Level III (2kV)

Ordering information

Product code	Supply voltage	Certification
MV507-230V-CE	240V AC ±20%	CE
MV507-110V-CU	110V AC ±20%	CE cULus LISTED