MV507

Voltmeter - Digital

48 x 48mm

Features:

- Single row, 3 digit
- Analog style bargraph indication
- True RMS measurement
- For 1 phase 2 wire electrical connection

Certifications: CE c UL us LISTED

Display Specifications

Display	Single row, Liquid Crystal Display
Digits	3
Digit Height	0.56" (14.2mm)
Display Range	5 to 516V
Bargraph	Analog style bargraph indication

Input Specifications

Electrical Connection	1 Ø-2 wire
Input Type	AC
Input Voltage Range	50-480V
Continuous Max. Input Rating	516V
Overrange Indication	"Or" for input > 516V
Frequency	50 / 60Hz
Resolution	1V
Accuracy	±0.5% of F.S
Input Impedance	1MΩ (± 5%)
Sampling Rate	3 samples / second
Dielectric withstand Voltage	2kV AC between auxiliary supply & measuring input
Rated Impulse withstand Voltage	2kV (1.2/50µS)

Auxiliary Supply Specifications

Auxiliary Supply	240V AC ±20%, (50 / 60Hz) 110V AC ±20%, (60Hz)
Power Consumption	5VA max

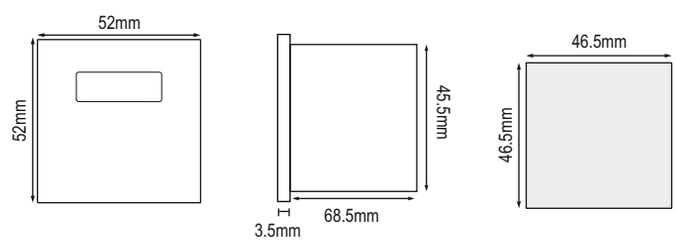
Environmental Specifications

Temperature	Operating: -10 to +55°C (14 to 131°F) Storage: -20 to +75°C (-4 to 167°F)
Humidity (non-condensing)	Upto 95% RH

Mechanical Specifications

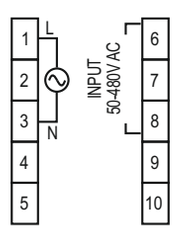
Mounting	Panel mount
Weight	165g

Dimensions



Front bezel | Side view | Panel cutout

Terminal Connections



c UL us	Cable Size (AWG): 20 to 14 ; Tightening Torque (Lb-inch): 6.018 to 6.992
IEC	Cable Size (mm²): 0.5 to 2.5 ; Tightening Torque (N-m): 0.68 to 0.79

Compliance

Applicable EMI / EMC Standards		
Product Standard : IEC 61326-1		
Category		**Standards Compliance**
ESD Immunity	IEC 61000-4-2	Level IV (Air discharge : 15kV), (Contact Discharge : -8kV)
Surge Immunity	IEC 61000-4-5	+/- 2kV common mode, (Line to ground) +/- 1kV differential mode, (Line to Line)
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

Part No.	Supply Voltage		Certification	
	110V AC	240V AC	CE	c UL us LISTED
MV507		■		
MV507-CU		■	■	■
MV507-110V	■			
MV507-110V-CU	■		■	■