MV507 Digital Voltmeter



Features:

- Liquid Crystal Display
- Single row, 3 digit
- Analog style bargraph indication
- True RMS measurement
- For 1 phase 2 wire electrical connection
- IP protection (Front Plate): IP65

Size: 48mm x 48mm (1/16 DIN)

Certifications: CE, cULus LISTED

Technical Specifications

Display

Display	Single row, Liquid Crystal Display
Digit	3
Digit Height	0.56" (14.2mm)
Display Range	0 – 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)

Supply Specifications

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

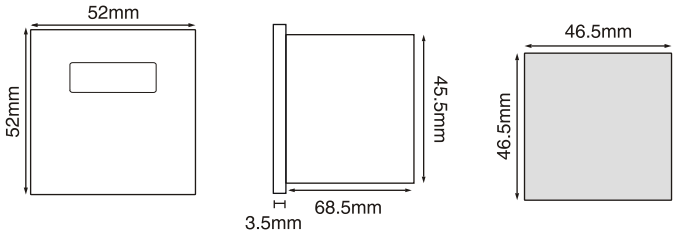
Environmental Specifications

Temperature	Operating: -10 to +55°C (14 to 131°F) Storage: -20 to +75°C (-4 to 167°F)
Humidity (non-condensing)	Upto 85% RH

Mechanical Specifications

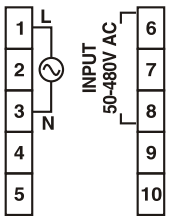
Mounting	Panel mount
Weight	165g
Protection Level	IP65 for faceplate

Dimensions



Front bezel | Side view | Panel cutout

Terminal Connections



cULus **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

Ordering Information

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