




48 x 48mm

### Features :

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

Certifications : 

### Display Specifications

Display	7 segment LCD
Digit	4
Display height	0.56" (14.2mm)
Display update time	1 sec
Resolution	1V

### Input Specification

Electrical Connection	1 Ø-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%
Overload Indication	"Or" for input > 516 V (L-L) "Or" for input > 300 V (L-N)

### Electrical specification

Input Impedance	1MΩ (± 5%)
Nominal input voltage burden	<0.3VA per phase
Overload 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	IP 50

### Auxiliary Supply Specification

Auxiliary Supply	240V AC, ±20%
Frequency range	50 to 60 Hz
Power Consumption	<5VA max

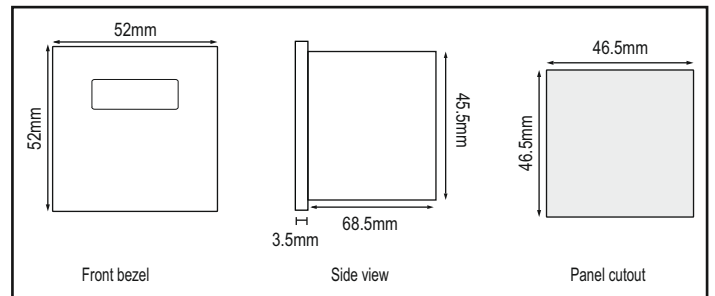
### Environmental specification

Operating temperature	-10 to +55°C
Storage temperature	-20°C to +75°C
Relative humidity	Up to 95% RH (non condensing)
Pollution degree	2

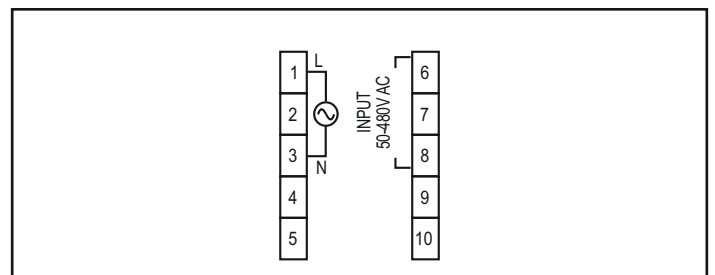
### Mechanical Specification


Mounting	Panel Mount
Bezel size	48 mm x 48 mm
Overall depth	68.5mm
Weight	165 gms
Certification	CE, RoHS


### Dimensions



### Terminal Connections



 Cable Size (AWG): 20 to 14 ; Tightening Torque (Lb-inch): 6.018 to 6.992

 Cable Size (mm<sup>2</sup>): 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	<b>Dips</b> : 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) <b>Interruptions</b> : 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	240V AC $\pm$ 20%	■
MV507-230V-CE	240V AC $\pm$ 20%	CE