

# MCF51EM256-based Poly Phase Energy Meter Reference Design 220V Technical Specifications

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## Electrical

Connection type	Direct connected (Whole current)
Wiring configuration	3 phase 4 wire & 1 phase 2 wire
Voltage rating	230V +/-10% (L-N)
Current range	10-60 A
Accuracy	Class 0.5
Frequency range	47Hz to 53Hz
Pulse constant	800 impulses/kWh & 800 impulses/kVAh

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<b>Standard compliance</b>	IEC 62053-11, IEC 62053-22, IEC 62053-23 & IEC62056-21
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## Mechanical

Dimensions (WxHxD)	168 x 242 x 84 mm
Weight	1.675 kg
Enclosure	Plastic (PC/ABS blends)
Sealing	Sealing screws provision

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## Environmental

Compliance	IEC 60529
Ingress protection	IP 51 (Indoor type meter)
Operating Temperature	-25°C to +55°C
Storage Temperature	-25°C to +70°C
Humidity	95%

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## Features

Measurement parameters	Voltage, Current, Frequency kWh, kVAh, kW, kVA, Power factor
Tamper Recording	Missing potential and current, current and voltage unbalance, cover open tamper detection. LED indication for tamper
Load profile	Load profile interval period: 5, 10, 15, 30, 60 minutes and 1 day.
Maximum demand	Programmable MD interval period of 30 minutes and 60 minutes  MD can be reset by using Reset key
Display	Custom built metering specific LCD with backlight. Eight digits 7 segment display for parameters with symbol identifiers.  Auto scroll  Manual scroll using UP and DOWN keys
Communication	Optical port as per standard IEC 62056-22  RS 232 port and BDM port for programming
Data security	Data storage in non-volatile memory; two levels of password for programming configuration and for auto calibration
Output device	LED pulses proportional to kWh, kVAh LED for Power on indication

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