POWER CUBE

MONITORING WHAT MATTERS MOST!

POLAR MONITORING



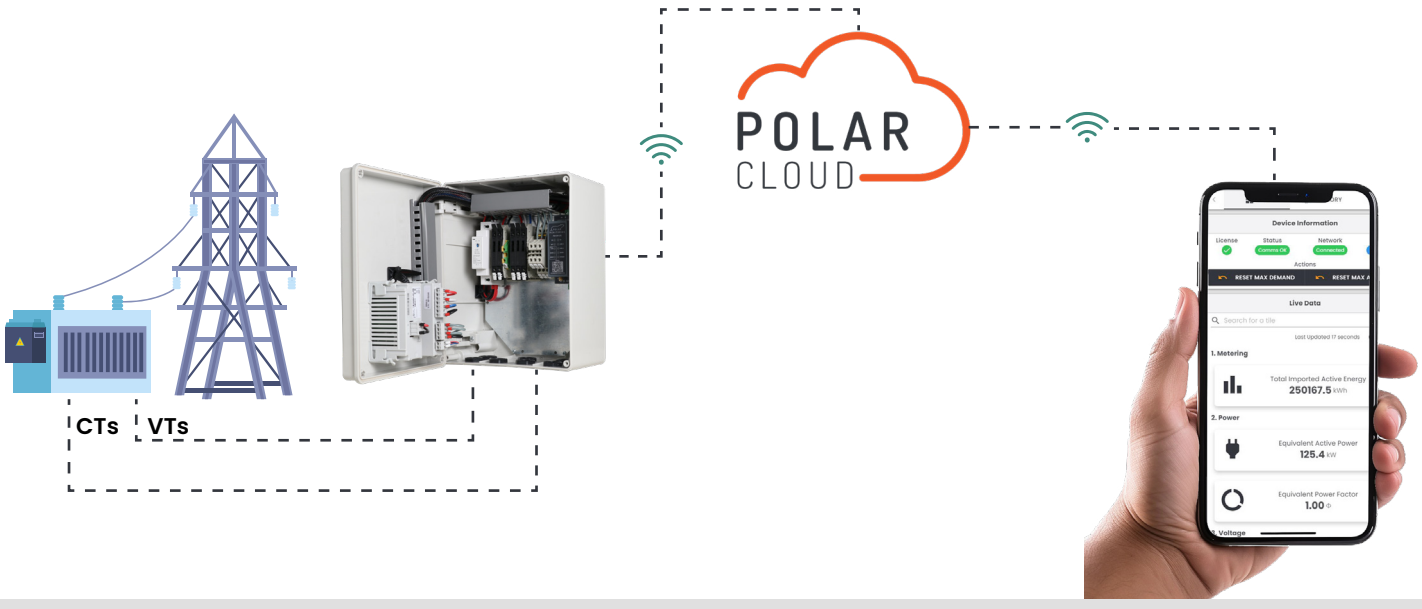
REMOTE POWER MONITORING AND ANALYTICS SOLUTION

A compact, complete solution for power monitoring and analytics with real-time off-site insights via the Polar Cloud.

Key Benefits

- Plug-and-play installation reduces deployment time.
- Reliable, cloud-connected power monitoring anywhere, anytime.
- Comprehensive power quality and energy data for smarter decisions.
- Enclosure for indoor/outdoor installations.
- Seamless integration with the Polar Cloud analytics platform.

SYSTEM OVERVIEW DIAGRAM



TECHNICAL SPECIFICATIONS

	Parameters	Description
Basic Parameters	Input Voltage	Min: 90 V AC Max: 240V AC
	Operating power	10W
	Antenna	2.5db with 2m cable, SMA Connection
	SIM	Global connectivity to all networks Managed by Polar Monitoring
Connectivity	Connection	GSM (2G) LTE Cat 1
	Brands	GSM: 900/1800MHz LTE: B1/B3/B7/B8/B20/B28
Environmental	Dimensions	300x250x110
	Weight	+-1.5kg
	Operating Temperature	-20°C to +60°C
	Storage Temperature	30°C to +80°C
	Operating Humidity	< 90%
	Mountings	Wall Mount
	Water and Dust Protection	IP54
Power Meter	Make and model	Lovato DMG 7500
	Measuring Volatage	Max: 600V AC Phase to Phase Max: 300V AC Phase to Neutral
	Measuring Frequency	Min: 45 Hz Max: 66 Hz
	Measuring Current	CT Connection Only: 1A/5A
	Harmonic Analysis	63rd Order
Accuracy	Voltage (L-N)	+-0.2%
	Voltage (L-L)	+-0.2%
	Current	+-0.2%
	Frequence	+-0.2%
	Active Power	Class 0.5
	Reactive Power	Class 1
	Active Energy	Class 0.5s
	Reactive Energy	Class 1

CERTIFICATIONS AND CONFORMITY

Lovato DMG7500 Power Meter Certifications:

- CE
- UKCA
- EAC
- cETLus

- IEC/EN/BS 61010-1
- IEC/EN/BS 61010-2-030
- IEC/EN/BS 61000-6-2
- IEC/EN/BS 61000-6-4
- UL61010-1
- UL61010-2-030
- CSA C22.2 No 61010-1
- CSA 22.2 No 61010-2-030

LTE Gateway

Certifications:

- ICASA
- Rohs
- CE

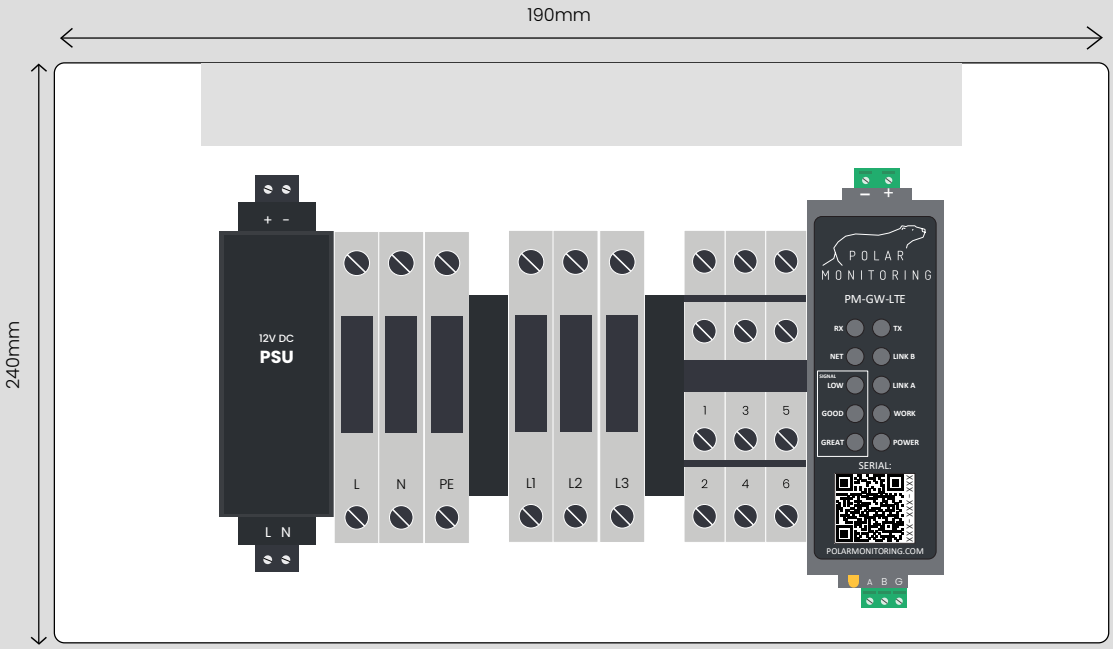


Figure 2: Power Cube Terminal Layout

TERMINAL NUMBER	DESCRIPTION	INPUT RANGE
L	Live Input for Auxiliary Power	230V AC
N	Neutral Input for Auxiliary Power	230V AC
PE	Earth Input	
L1	Voltage Reference Phase 1	Max: 600V AC Phase to Phase Max: 300V AC Phase to Neutral
L2	Voltage Reference Phase 2	
L3	Voltage Reference Phase 3	
1	S1 - CT Phase 1	CT secondary ratio 1A or 5A Only
2	S2 - CT Phase 1	
3	S1 - CT Phase 2	
4	S2 - CT Phase 2	
5	S1 - CT Phase 3	
6	S2 - CT Phase 3	

Ordering Information

- Product code: **PM-S-CUBE-POWER**
- CTs ordered separately for application
- Requires Polar Cloud License to operate.
- Optional accessories: Needs an indentation

Compliance and Warranty

- **1-year warranty from date of installation.**

Product must be correctly installed and activated on the Polar Cloud. Unit must be part of an active site with an active license on the Polar Cloud.

- **Safety and compliance standards:**

Fused terminals for all Voltage inputs.

POLAR MONITORING

WWW.POLARMONITORING.COM

INFO@POLARMONITORING.COM

Upgrade Your Power Efficiency – Get Started!