pert SMART ENERGY MONITOR

Stop quoting the same solar as everyone else.

Energy monitoring your customer can see on their phone — the part of the offer your competition does not have. Designed and manufactured in India.



EMD-3C
1P2W · 3 CT inputs



EMD-6C
3P4W · 6 CT inputs

THE COMMERCIAL CASE

Every solar quote looks the same. This is what changes that.

Panels and inverters are commodities. The customer collects three quotes carrying much the same brands and picks the cheapest, because nothing in front of them separates one installer from another. Monitoring moves the conversation off price.

A SOLAR QUOTE WITHOUT IT	YOUR QUOTE WITH PERT EMD
Competes on price per kW, against two quotes with the same panels	Carries something the other two quotes do not
"Trust us, it's working"	Generation and savings on the customer's phone from day one
The customer calls you when the bill looks wrong	The app answers that question before they pick it up
Underperformance surfaces when someone complains	It surfaces in your data first, while it is still cheap to fix
One transaction, then silence	A live account to come back to with batteries, EV charging, capacity

> A customer who can see their system working does not go quiet after handover. They come back for the battery, the EV charger and the capacity upgrade — and they recommend the installer who showed them the data.

WHAT YOU HAND THE CUSTOMER

Their electricity, finally legible.

Where the money actually goes

Solar, grid and household consumption as four separate live figures — not one net number on a bill that arrives too late to act on.

A saving that costs nothing

Seeing the export split tells them to move the washing machine, pump or EV charging into daylight. Free, and it works immediately.

Proof the system performs

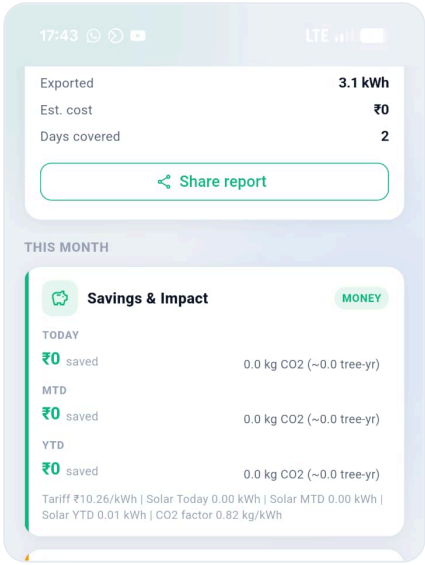
Generation this month against the same month last year — so shading, soiling or an inverter fault is visible rather than suspected.

Answers without a phone call

The question every solar owner eventually asks — why is my bill still high — answers itself on screen.







On both app stores

Pert EMD is published on the App Store and Google Play, so the handover is a download rather than a login you have to support.

Yours to see too

The same data is visible to you across the sites you fit, so a problem reaches you before it reaches the customer.

THE RANGE

Two models. Every residential and small commercial site.



EMD-3C

Single Phase Energy Monitor

Compact DIN rail energy monitor for homes, villas, and small solar installations.

- Voltage monitoring
- Forward and reverse energy
- Import, export, consumption
- Solar generation



EMD-6C

Three Phase Energy Monitor

Three phase monitoring for solar integrators, commercial panels, and advanced analytics.

- Voltage A, B, C
- Forward and reverse kWh by channel
- Import, export, solar generation
- Consumption, frequency, temperature, signal

MODEL	SUPPLY	CHANNELS	TYPICAL SITE
EMD-3C	Single phase	3 CT	Homes
EMD-6C	Three phase	6 CT	Solar + Commercial

Both mount on 35 mm DIN rail inside the existing board, measure true RMS, and report forward and reverse energy per channel — so import and export are distinguished rather than netted. Split-core CT clamps fit without breaking a conductor.

SPECIFICATION

EMD-3C Single Phase Energy Monitor



The EMD-3C gives homeowners and residential installers live visibility into grid usage, solar contribution, and major load behavior from a compact enclosure.

Electrical system	1P2W (Single phase)
Installation	DIN rail mounted (35 mm)
Channels	3 CT clamp inputs
Rated operational voltage	90-264 V AC
Frequency	47-63 Hz
Measurement type	True RMS
Power consumption	< 3 W
Energy direction	Import / Export (Forward / Reverse)
Minimum load	100 mA
Surge immunity	Up to 4KV (IEC 61000-4-5)
Accuracy class	Class 1 (configurable option) / Class 2 standard
Measured values	Voltage, current, active power, forward/reverse active energy, frequency, power factor
Wireless standard	Wi-Fi 2.4 GHz
Antenna gain	< 3 dBi
Time sync	NTP with RTC backup
Updates	OTA firmware

SPECIFICATION

EMD-6C Three Phase Energy Monitor



The EMD-6C is designed for integrators who need accurate three phase visibility, inverter performance tracking, and cloud-connected diagnostics.

Electrical system	3P4W (Three phase)
Installation	DIN rail mounted (35 mm)
Channels	6 CT clamp inputs
Rated operational voltage	90-264 V AC
Frequency	47-63 Hz
Measurement type	True RMS
Power consumption	< 3 W
Energy direction	Import / Export (Forward / Reverse)
Minimum load	100 mA
Surge immunity	Up to 4KV (IEC 61000-4-5)
Accuracy class	Class 1 (configurable option) / Class 2 standard
Measured values	Per-phase voltage, per-channel current, active power, forward/reverse active energy, frequency, power factor
Wireless standard	Wi-Fi 2.4 GHz
Antenna gain	< 3 dBi
Time sync	NTP with RTC backup
Updates	OTA firmware

MONITORED PARAMETERS

ELECTRICAL INPUTS

Voltage A · Voltage B · Voltage C · Frequency

REVERSE ENERGY

Rev kWh A · Rev kWh B · Rev kWh C · Rev kWh D · Rev kWh E · Rev kWh F

CALCULATED METRICS

Import · Export · Solar Generation · Consumption

FORWARD ENERGY

Fwd kWh A · Fwd kWh B · Fwd kWh C · Fwd kWh D · Fwd kWh E · Fwd kWh F

SYSTEM STATUS

Temp · Signal Strength

WHO YOU WOULD BE BUYING FROM

Not a brand that outsources its hardware.

Pert Infoconsulting Pvt Ltd has built electronics in India for 12 years, much of it on an OEM basis for the largest electrical brands in the country. The EMD range comes off those same lines — which is what stands behind your warranty, not a trading company.

WE ALREADY MANUFACTURE FOR

HAVELLS · wipro · BAJAJ Bajaj Electricals Ltd. · POLYCAB IDEAS. CONNECTED. · Hero Electronix · LEDVANCE OSRAM



Surface-mount placement, in-house.



Assembly and test benches.

Stock you can plan around

Production lines audited to the standards of the brands we build for, running at their volumes — so your orders are not competing with someone else's import schedule.

Support in your time zone

The people who designed the board are in Hyderabad. Firmware updates reach the whole fleet over the air, so a fix is not a hundred site visits.

Plant: Plot 4A & 4B, Electronic Complex TSIIC, ECIL, Kushaiguda Industrial Area, Secunderabad, Telangana 500062

pert

Let’s talk volumes.

Pricing on request. Tell us the sites you are fitting and we will come back with trade terms, lead times and sample units.

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APP

Pert EMD on the App Store and Google Play

Pert Infoconsulting Pvt Ltd · Designed and manufactured in India · Specifications subject to change without notice.