



WE MEASURE BEFORE BUILD.

An energy company in two halves: a diagnostic practice for industry, and a storage product line for homes. One engineering standard behind both.



01
THE COMPANY

02
INDUSTRIAL &
COMMERCIAL

03
RESIDENTIAL

WHAT WE BELIEVE

GENERATION DECIDES HOW MUCH ENERGY EXISTS. STORAGE DECIDES **WHEN IT IS USEFUL.**

Yoshinova is an Indian clean-energy company and an Ojas Mobility LLP venture. We design and manufacture lithium energy storage, and we run the power-quality diagnostics that decide how it should be sized.

Put an intelligent storage layer between the grid, the rooftop and the load, and the same infrastructure delivers lower bills, steadier supply and fewer emissions without asking anyone to consume less.



Innovation

We push what energy storage can do, rather than repackaging what it already does.

Sustainability

Environmental responsibility sits inside the engineering, not beside it.

Reliability

Solutions you can depend on, backed by support that outlasts the invoice.

OUR MISSION

To empower businesses and households to achieve energy independence through accurate data and sustainable engineering.

THE TWO-STEP PHILOSOPHY

MEASURE FIRST. RECOMMEND SECOND.

It is the whole company in two words. Everything on the following pages is either the measuring or the thing the measurement prescribed and we do not do the second without the first.



01

WE MEASURE

Class-A instruments on the incomers. Real load, real harmonics, real demand behaviour logged for days, not sampled for an hour. Findings priced in rupees per month.

02

THEN WE RECOMMEND

Capacity, chemistry and configuration follow the measured curve. Sometimes the answer is a system. Sometimes it is a change that costs nothing. We say which.



PART TWO

INDUSTRIAL & COMMERCIAL

For plant heads, facility managers and anyone who signs an electricity bill with a demand charge on it.

- 01** What three losses are costing you
- 02** EPS-1 - the audit, as a defined product
- 03** From audit to installed system
- 04** Modular power systems, 25 - 125 kW

BEFORE ANYTHING IS INSTALLED

THREE THINGS ARE TAKING MONEY OUT OF YOUR PLANT RIGHT NOW.

None of them appear as a line on your electricity bill. All three are measurable, and each one carries a rupee figure once it is.

01 POWER FACTOR

A power factor of 0.82 puts a penalty on every unit you are billed, every month, on the whole plant. It is the cheapest thing on this page to fix and the most commonly ignored.

Penalty applied to 100% of units billed

USEFUL WORK — 100 kW

BILLED — 122 kVA

+22%

02 HARMONIC DISTORTION

Non-linear loads push current back into your system. Transformers and motors run hotter, get derated, and fail earlier than their rating says they should.

Shortened asset life · unplanned downtime

Clean supply against a distorted waveform.

03 PEAK & TOD TARIFFS

One evening peak sets the demand charge for the entire month. Under time-of-day pricing the same unit consumed at 19:00 costs materially more than at 04:00.

One half-hour sets 30 days of charges



A 24-hour load profile against ToD windows.

Typically ₹2–8 lakh a year, on a site nobody thought was wasteful.

The only way to know which of the three is yours and what it is worth is to measure it.

THE AUDIT AS A DEFINED DELIVERABLE

ONE ENGAGEMENT. SEVEN THINGS YOU RECEIVE.

EPS-1 is not consulting time billed by the hour. It is a single engagement with a fixed set of components and a document at the end of it the same seven every time, whatever the size of the site.

7-30 daysCONTINUOUS
LOGGING**Class-A**

INSTRUMENTATION

IEEE 519ALIGNED
METHOD

01	Power quality audit	Comprehensive assessment of the electrical system. Power quality parameters analysed; load, harmonics, power factor and phase imbalance studied.
02	Analyser installation & monitoring	A power quality analyser installed on site for 24/7 real-time capture voltage, current, power factor, harmonics, demand and disturbance events.
03	Hidden loss identification	Power quality issues and inefficiencies detected. Energy waste, equipment stress and reliability risks isolated, with root-cause analysis behind each.
04	Rupee impact analysis	Every issue converted into financial impact. Current losses and future risk quantified, with clear visibility of the savings available.
05	Executive summary	Key findings and a performance snapshot in language a board will read data-backed and decision- ready, not a data dump.
06	Prioritised savings roadmap	An action plan ordered by return. Quick wins first, longer-term capital projects costed and sequenced, with recommended next steps.
07	Storage readiness assessment	Feasibility of energy storage evaluated against the measured curve, optimal capacity determined, expected ROI and payback forecast.

The report is yours whether or not you buy hardware from us.

Scope and fee are agreed after a short scoping call. Some of what the report recommends costs nothing to implement.

THE ENGAGEMENT

THE AUDIT IS THE SPECIFICATION.

Not a document that gets filed it is what the system is built from, and the baseline every later reading is measured against. Each stage hands something concrete to the next, and every one of them is yours to keep.



STAGE

WHAT HAPPENS

WHAT IT HANDS OVER

Diagnose

01

A senior engineer walks the meter rooms, panels, motors and HVAC. Every plant is read fresh nothing templated from the last site.

OUTPUT

Load hierarchy mapped

Where the power goes, and which circuits are worth instrumenting.

Measure

02

Class-A analysers on the incomers, logged continuously for 7 to 30 days load, harmonics, power factor, demand and disturbance events.

OUTPUT

Measured load profile

Your own consumption, hour by hour, across a full logging window.

Quantify

03

Every loss isolated and converted into a rupee figure per month, with the instrument reading that produced it attached to each finding.

OUTPUT

Itemised loss register

Every finding priced per month, evidence attached.

Optimise

04

The fixes that cost nothing go in first. Trend reporting keeps the gains from quietly drifting back over the months that follow.

OUTPUT

Prioritised roadmap

Quick wins first, capital projects costed and sequenced by return.

Deploy

05

Storage sized against the measured curve rather than the nameplate rating capacity that discharges, not capacity that idles.

OUTPUT

Right-sized proposal

Capacity justified by the curve, payback arithmetic shown.

MODULAR POWER SYSTEMS

GRID FAILURE? NO INTERRUPTION.

Three-phase energy storage inverters for commercial, industrial and workshop loads. Ultra-fast grid transfer, so the line does not know the supply changed.



OUTAGE – PRODUCTION STOPPED



YOSHINOVA POWER – BUSINESS AS USUAL

FOUR MODELS, ONE PLATFORM

10 kW

YIS-10kW3P-LV

48V low voltage

Workshops, small units

15 kW

YIS-15kW3P-LV

48V low voltage

Mid-size commercial

20 kW

YIS-20kW3P-LV

48V low voltage

Manufacturing lines

30 kW

YIS-30kW3P-HV

High voltage

Industrial & campus loads

KEY FEATURES



Ultra-fast instantaneous grid transfer



Lithium-ion battery integrated



C&I and workshop load support



Scalable battery solutions



Worldwide monitoring and control



Clean sine wave power

IP65 Smart air cooling • RS485 / CAN to BMS • 5-year standard warranty, extendable to 10 • Wall-mounted

C & I SERIES THREE-PHASE ENERGY STORAGE INVERTER

PRO SERIES SPECIFICATIONS

	THREE PHASE - LOW VOLTAGE			THREE PHASE - HIGH VOLTAGE
CAPACITY (KW)	10KW 48V-LV	15KW 48VLV	20KW 48V-LV	30KW -410V -HV
MODEL NUMBER	YIS-10kW3P-LV	YIS-15KW3P-LV	YIS-20KW3P-LV	YIS-30KW3P-HV
BATTERY TYPE	Lithium-Ion	Lithium-Ion	Lithium-Ion	Lithium-Ion
BATTERY VOLTAGE RANGE (V)	40-60	40-60	40-60	40-60
MAX. CHARGING CURRENT (A)	50A	100A	80A	50A
MAX. DISCHARGING CURRENT (A)	210A	280A	350A	100A
CHARGING CURVE	3 Stages / Equalization	3 Stages / Equalization	3 Stages / Equalization	3 Stages / Equalization
CHARGING STRATEGY FOR LI-ION BATTERY	Self-adaptation to BMS	Self-adaptation to BMS	Self-adaptation to BMS	Self-adaptation to BMS
AC INPUT / OUTPUT DATA				
RATED AC I/O POWER (W)	10000	15000	20000	29900
RATED AC I/O RATED CURRENT (A)	15.5 / 14/5	22.8 / 21.8	30.4 / 29	45.4 / 43.4
MAX AC I/O RATED CURRENT (A)	16.7 / 16	25 / 24	33.4 / 31.9	45.4 / 43.4
MAX. CONTINUOUS AC PASSTHROUGH CURRENT (A)	45A	70A	70A	200A
PEAK POWER (off grid)	2x of rated power, 10 S	2x of rated power, 10 S	2x of rated power, 10 S	1.5x of rated power, 10 S
POWER FACTOR	0.8 leading to 0.8 lagging	0.8 leading to 0.8 lagging	0.8 leading to 0.8 lagging	0.8 leading to 0.8 lagging
I/O FREQUENCY AND AC VOLTAGE	50/60Hz; 3L/N/PE 220/380, 230/400Vac	45-55Hz; 3L/N/PE 220/380, 230/400Vac	45-55Hz; 3L/N/PE 220/380, 230/400Vac	45-55Hz; 3L/N/PE 220/380, 230/400Vac
GRID CONNECTION	3P (3L+N+PE)	3P (3L+N+PE)	3P (3L+N+PE)	3P (3L+N+PE)
DJ INJECTION CURRENT	<0.5% In	<0.5% In	<0.5% In	<0.5% In
PV STRING INPUT DATA				
MAX. PV INPUT POWER (W)	20000	30000	40000	59800
RATED PV INPUT VOLTAGE (V)	550V	550V	550V	600V
START-UP VOLTAGE (V)	160V	160V	160V	180V
MPPT VOLTAGE RANGE (V)	200-650V	160-650V	160-650V	150-850V
MAX OPERATING PV INPUT CURRENT(A)	20+20	36+36	36+36	36+36+36
MAX PV INPUT SHORT CIRCUIT CURRENT (A)	30+30	54+54	54+54	55+55+55
NUMBER OF MPPT/STRINGS PER MPPT	2 / 1+1	2 / +2	2 / +2	4 / 2+2+2+2
EFFICIENCY / PROTECTION				
MAX EFFICIENCY	97.60%	97.60%	97.60%	97.60%
EURO EFFICIENCY	97%	97%	97%	97%
MPPT EFFICIENCY	>99%	>99%	>99%	>99%
INTEGRATED PROTECTION	Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Surge Protection			
OUTPUT OVER VOLTAGE PROTECTION	Type II DC / Type II AC	Type II DC / Type II AC	Type II DC / Type II AC	Type II DC / Type II AC
GENERAL DATA				
OPERATING TEMPERATURE RANGE (°C)	(-40°C-60°C) > 45°C Derating	(-40°C-60°C) > 45°C Derating	(-40°C-60°C) > 45°C Derating	(-40°C-60°C) > 45°C Derating
COOLING / NOISE	Smart Air Cooling / <45dB	Smart Air Cooling / <60dB	Smart Air Cooling / <60dB	Smart Air Cooling / <65dB
COMMUNICATION WITH BMS	RS485; CAN	RS485; CAN	RS485; CAN	RS485; CAN
WEIGHT (kg)	35.3	51.9	51.9	80.0
DIMENSIONS (W×H×D) mm	386W x 660H x 250D (Excl. Bkts)	456W x 750w x 268.5D (Excl. Bkts)	456W x 750H x 268.5D (Excl. Bkts)	527W x 894H x 294D (Excl. Bkts)
PROTECTION DEGREE	IP65	IP65	IP65	IP65
STANDARD WARRANTY	5 years (Extendable upto 10 years)	5 years (Extendable upto 10 years)	5 years (Extendable upto 10 years)	5 years (Extendable upto 10 years)

PART THREE

RESIDENTIAL

For homes and housing. Clean, silent backup that protects what it powers and charges from your own roof.

01 Power that behaves like it was always there

02 The YRC range - three sizes

03 Full technical Specifications

RESIDENTIAL

THE POWER GOES OUT. NOTHING HAPPENS.

SOLAR PANELS

Captures sunlight
and converts it
into electricity



YOSHINOVA INVERTER

Converts and manages
solar energy for
home use



HOME APPLIANCES

Powers your essential
appliances



REFRIGERATOR



TELEVISION



FAN



LIGHTS



AIR CONDITIONER

The fridge never notices

Change over is instantaneous. No flicker, no reset, no clock blinking at midnight.

You will not hear it

No engine, no exhaust, no fuel to store. It sits on a wall and says nothing.

It charges from your roof

Solar-ready as standard. Daytime generation becomes evening supply.

It asks nothing of you

No topping up, no servicing schedule, no annual visit. Check it from your phone if you want to.



CLEAN & RENEWABLE
Energy for a
sustainable future



SAVE ELECTRICITY
Reduce electricity bills
with solar power



RELIABLE POWER
Uninterrupted power
for your home

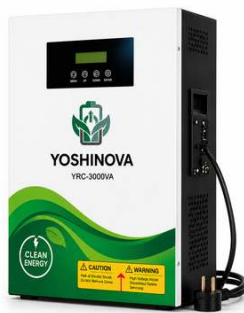


SAFE & EFFICIENT
Advanced technology
for maximum safety

THREE SIZES

PICK THE ONE THAT MATCHES YOUR HOME.

The only question that matters at this stage is how much of the house you want to keep running, and for how long.



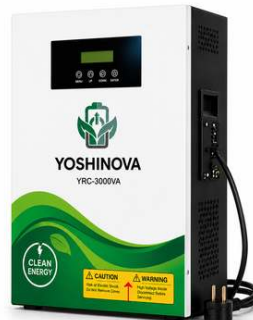
YRC-1100VA

A SMALL FLAT



2.5 hrs

at 400 W



YRC-3000VA

A FAMILY HOME



5.5 hrs

at 400 W



YRC-5000VA

A LARGE HOUSE



11 hrs

at 400 W

All three share the same chemistry, the same protection and the same warranty.

FOR THE PEOPLE WHO WANT THEM

TECHNICAL SPECIFICATIONS

RESIDENTIAL

PARAMETER	YRC-1100VA	YRC-3000VA	YRC-5000VA
A. INVERTER & SOLAR PCU			
Inverter Rating	1100 VA	3000 VA	5000 VA
Load (Watts)	880 W	2400 W	4000 W
Peak Load Duration	200% rated load - 20mS	200% rated load - 20mS	200% rated load - 20mS
Output Voltage	220V	220V	220V
Output Waveform	Pure Sine Wave	Pure Sine Wave	Pure Sine Wave
Phase / Frequency	Single / 50Hz	Single / 50Hz	Single / 50Hz
THD / Power Factor	<4% / 0.8PF	<4% / 0.8PF	<4% / 0.8PF
Overloads	100-105%: 60s	105-110%: 30s	110-120%: 20s
B. BATTERY DATA (LiFePO4)			
Battery System	12.8V / 100Ah	25.6V / 100Ah	48V / 100Ah
Lithium Battery Rating	1280 Wh	2560 Wh	5120 Wh
BMS Type	Smart BMS	Smart BMS	Smart BMS
Charging Voltage	14.0 +/- 0.3V	28.0 +/- 0.3V	56.8V
Full Discharge Voltage	11.8V	23.2V	47.2V
Operating Environment	0-60 C 10-90% Humidity	0-60 C 10-90% Humidity	0-60 C 10-90% Humidity
C. GRID CHARGER			
Grid Voltage Range	90-280V	90-280V	90-280V
Grid Frequency	50 +/-5% Hz	50 +/-5% Hz	50 +/-5% Hz
Max Charging Current	17A +/- 2A	17A +/- 2A	17A +/- 2A
D. SOLAR CHARGE CONTROLLER			
Topology	PWM	PWM	MPPT
PV Total Capacity	1 kW	3 kW	5 kW
PV Voltage Range	20-50V	30-50V	90-180V
Max Charging Efficiency	>= 92%	>= 92%	>= 92%
E. DISPLAY & SAFETY			
Display Type	LCD Numerical	LCD Numerical	LCD Numerical
Display Parameters	V, A, Load%, SOC	V, A, Load%, SOC	V, A, Load%, SOC
System Protections	MCB/Fuse/TCB, Reverse Polarity	MCB/Fuse/TCB, Rev Polarity	MCB/Fuse/TCB, Rev Polarity
F. PHYSICAL			
Housing	Corrosion-Resistant Mild Steel	Corrosion-Resistant Mild Steel	Corrosion-Resistant Mild Steel
Cooling	Intelligent Forced	Intelligent Forced	Intelligent Forced
Dimensions (mm)	380x445x170	435x555x215	510x225x1005
Weight	25 kg	44 kg	70 kg
Backup @ 400W Load	2.5 HOURS	5.5 HOURS	11 HOURS

BEYOND THE TWO HALVES

TELECOM, SOLAR AND EVERYTHING BETWEEN.

The same chemistry and the same BMS platform, in the two places that sit outside a factory floor and a family home.

NovaConnect

TELECOM

Rack-mountable 19-inch modules for towers and network sites. Silent, instant response, no warm-up, no fuel. Remote-monitored for unmanned sites.

48V / 100Ah rack modules
Paralleled to required autonomy



NovaGrid

SOLAR+STORAGE

Storage coupled to new or existing rooftop, PWM or MPPT. Daytime generation stored and released through the evening peak instead of exported cheaply.

Compatible with new and existing arrays
No re-engineering

Also deployed in cold storage & food processing, pharma & FMCG, warehousing, and educational campuses.



YOSHINOVA

START WITH A MEASUREMENT.

One call to action, whichever half of this brochure brought you here: book a site assessment. Everything else follows from what it finds.

INDUSTRIAL & COMMERCIAL

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RESIDENTIAL

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OJAS MOBILITY

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