



ABOUT US

Rayax is a leading name in the solar sector, delivering comprehensive, end-to-end solar solutions. We are dedicated to making clean energy accessible to all by offering superior solar technology designed for maximum efficiency and long-term reliability. Our experienced team provides seamless services, covering everything from consultation and design to installation and ongoing maintenance. With a strong focus on cost-efficiency, we empower homeowners, businesses, and industries to reduce their energy expenses while promoting environmental sustainability. Our innovative, tailored solutions cater to diverse energy needs, driving the transition towards a greener, more sustainable future with affordable and reliable solar power.



Mission @

With a strong commitment to our stakeholders, we are dedicated to consistently elevating the quality of our products and services, delivering excellence in all we do.

Vision



Our vision is to deliver affordable, highquality sustainable energy solutions worldwide, cutting carbon emissions and promoting a greener future for a better quality of life.

Values

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Our values define who we are and guide our actions: we uphold Integrity in all interactions, foster Respect for Individuals, and prioritize putting the customer first with a passion for excellence, we continually strive for improvement, embracing innovation to deliver solutions that exceed expectations.



SOLAR PANELS

Range (55 W - 730 W)

ADVANTAGES

- Highest reliability & enhanced crack tolerant MBB module
- Highest commercial gains, lower LCOE
- Sustain heavy Snow & Wind loads (5400 Pa & 2400 Pa)
- Improved longevity with Excellent anti-PID performance
- Split junction box improve heat dissipation

Technical Specifications

Model Name	AM – 55 W	AM – 75 W	AM – 110 W	AM – 170 W	AM – 210 W	AM – 225 W	AM – 275 W	AM – 550 W	AM – 550 W Bifacial	AM – 600 W Topcon	AM – 730 W Hjt
Power (Pm) in watts	55	75	110	170	210	225	275	550	550	600	730
No. of Cells	36	36	36	36	36	72	72	144	144	144	132
Voltage at Maximum Power (Vmp) in Volts	21.00	21	21	21	21.5	21.00	21.50	42.74	42.40	43.50	43.00
Current at Maximum Power (Imp) in Amps	2.62	3.67	5.25	10.05	10.05	10.72	12.80	12.89	12.98	13.57	16.98
Open Circuit Voltage (Voc) in volts	24.50	24.91	24.91	24.91	24.91	25.00	25.00	49.60	50.20	51.00	51.00
Short Circuit Current (Isc) in Amps	2.83	3.89	5.23	10.65	10.65	13.70	13.45	13.72	13.82	14.45	17.80



ON-GRID SOLAR INVERTER

Proudly, Truly Indian.

Experience the Rayax On-Grid solar inverter series, proudly designed and made in India . Engineered with precision and packed with advanced features, this inverter ensures optimal performance and reliability. From its low current distortion factor to its robust anti islanding feature, each aspect is designed to maximise efficiency and safety. With an advanced MPPT algorithm and wide range voltage support, it optimises the solar energy harvest and adapts to varying conditions seamlessly.

Compact, lightweight, and easy to install, it's the perfect solution for sustainable energy generation! Plus, with data stored securely on Indian servers, you can trust its privacy and security.

Single Pha	se _					
CAPACITY (KW)	2	3	5	5.4	6	
INPUT (DC)		1				
Max. DC input power (KW)	2.2	3.3	5.5	5.9	6.6	
Max. DC I/P (Vdc)	L.L		550V	0.0	600V	
Max. MPPT I/P Current (A)			20A			The Rays Of Power
MPPT Short Circuit Current (A)			30A			STATION
MPPT Tracking Voltage (Vdc)	70-	550V	80-55	50V	80-600V	STATCON EVERTSIAA Evertsiaa
Start-Up Voltage (V)	80V	80V				
Number of MPPT Tracker				1/2		
Strings per MPPT Tracker			1			PU Vo1t: 172.2 U. PU Anne: 06.28 A
OUTPUT (AC)						
Rated output power (KW)	2	3	5	5.4	6	
Rated Grid Voltage (V)			230	V		
Voltage Operating Range (V)	140	-285V	170-285V			
Rated Grid freq. (Hz)/Range			50Hz (± 5%)			
Rated output current AC (A)	9.6	14.3	23.5	25.8	28.7	
AC Connection			P+N+PE			
THDI (%)	<3%					
Output Power factor		0.8	leading to 0.8 lagg	ing		
EFFICIENCY					1	
Max. conversion Efficiency (%)			97.5%			
Max. Euro Efficiency (%)			97.3%			
MPPT Efficiency (%)			>99%		\overline{f}	
GENERAL DATA						
Dimensions (W*H*D) mm	280W*31	10H*184D		330W*323H*19	OD	Range : 2 KW - 6 KW
Weight (Kg)	4	.8		7.5		
Topology			Transformerless			
Noise Emission (dB)	<25dB					
Display	LED with LCD Display					
Cooling Method	Natural Cooling				1	
Operating ambient Temperature	(-25°C~+65°C)					
Operating Humidity	0%-100%					
Max. Operating Altitude (m)	2000 (>2000 Derating)m)m		
Ingress Protection	IP65					
Night Consumption (w)	<1					
Standard Warranty			8 Years*			
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HYBRID MPPT INVERTER (1-PHASE)

THE OFFGRID INVERTER KILLER

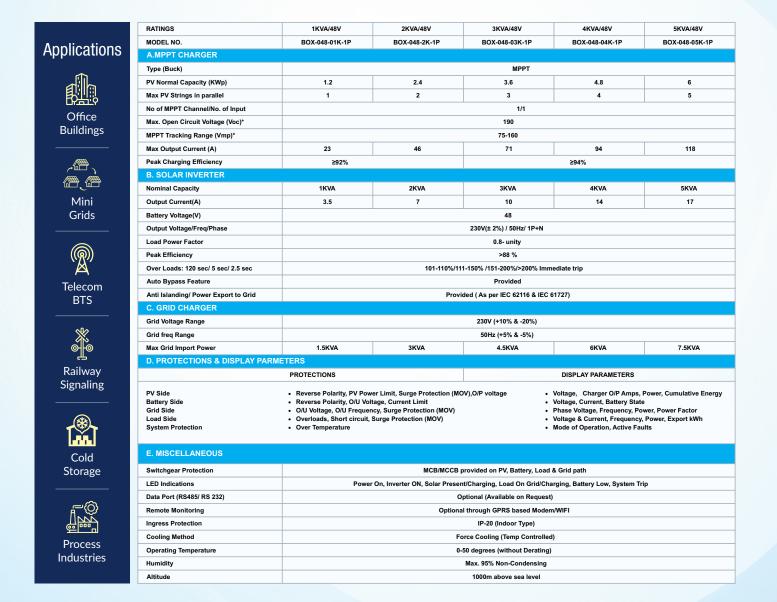
The Boxer is a unique addition to the Indian solar industry, plagued with budget friendly and frequently failing foreign wall mounted products. Boxer has a galvanic isolation to protect from the grid variations and gives the consumer all benefits of a hybrid inverter, while being a sleek, efficient machine. With Lithium compatibility, it is set to bring about a revolution in Indian homes, craving for high power and better backups.



Range: 1-5 KVA/48V

- Seamless changeover time

- 20% Overloading on PV Side
- Battery-less operation on demand
 Li+ compatible with brand selection
- Export power to grid at lean loads
 Runs heavy loads including 1.5T AC





ENERGY STORAGE SYSTEM (Li+ ESS)

The 'Drawing-Room' Solar that runs your AC

Rayax ELITHIUM series form our stunning, powerful and premium category of Solar Energy Storage Systems. Perfect harmony of optimised MPPT Inverter technology and a lithium energy pack provides enough punch to run your heavy loads, including 1.5T inv Air Conditioner (Elithium 3532). Designed to revolutionise the aspirational domestic market, making seamless energy accessible to premium households. This solar plus storage pack promises intelligent operation of energy to ensure you are independent from the variations of mains grid.

TECHNICAL SPECIFICATION

PARAMETER



ELITHIUM 2027 📕 ELITHIUM 3532

HEAVY LOADS

Runs your 1HP motor on EL 2026 Runs your 1.5T inv AC on EL 3532 Built to withstand overloads up to 200%

PREMIUM DESIGN

Wall mounted sleek design Minimalist colours to match your decor No more shoddy battery wiring

LITHIUM ADVANTAGE

Zero battery maintenance Works well with heavy motor loads Longer life and more kWh per cycle

PLUG N PLAY LFP

battery, factory-fitted and connected Easily connect PV, GRID and LOADS DIY System, needs zero expertise to install



Model Number/Name	RATING RATING					
Model Number/Name Nominal DC Voltage	Elithium 2027 Elithium 3532					
	25.6V					
MPPT CHARGER						
Type of Charger	MPPT					
No of MPPT Channels	One					
Switching Element		BT				
Max. Connected PV Modules	2200 Watts	3000 Watts				
Max MPPT Output Current/	70 Amps	100 Amps				
Max Battery Charging Current						
Max. Open Circuit PV Voltage	110 V					
MPPT Voltage Range	35-88 Volts					
Max. Input PV Current	40 Amps	50 Amps				
MPPT Peak Efficiency	94%	92%				
SOLAR INVERTER						
Input Power at Peak Load	2200 Watts	3000 Watts				
Switching Element	MOSFET					
Nominal Output Voltage	220 V					
Nominal Output Frequency	50 Hz					
Output Voltage Range (At nominal Battery Volts)	180-220 Volts					
Max. Output Nominal Current	8 Amps 9.5 Amps					
Overloads	100-125% (120 Seconds), 126-150% (60 Seconds), 151-200% (5 Seconds), > 200% (Immediate)					
Controller Type	DSP Based					
Output Type		ne Wave				
Input Source		tery/Grid				
Peak Inverter Efficiency		5%				
Total Harmonic Distortion		an 5 %				
Changeover Time in UPS Mode		15 msec				
Changeover Time in Wide Range Mode	less than	1 25 msec				
BATTERY						
Battery Ah/Voltage	105/25.6	125/25.6				
Battery Wh	2688	3200				
Charging current (A)	30 Amps					
Continuous discharging current (A)	50 Amps					
Maximum continuous discharging current (A)	100 Amps					
Battery Under Cut Alarm	24.2V (Settable)					
Battery Under Cut	24.0V (Settable)					
Float Charging Voltage (Factory Settable)	28.8V					
Boost Charging Voltage (Factory Settable)	28.8V					
GRID CHARGER	20					
Grid Operating Voltage Range (W-UPS Mode)	120.280.1/	alts(+(10))				
Grid Under Cut Recovery Voltage (W-UPS Mode)	120-280 Volts (+/- 10V) 135 Volts (+/- 5V)					
Grid Over Cut Recovery Voltage (W-UPS Mode)	265 Volts (+/- 5V)					
Grid Operating Voltage Range (UPS Mode)	180-260 Volts (+/-10V)					
Grid Under Cut Recovery Voltage (UPS Mode)	195 Volts (+/- 5V)					
Grid Over Cut Recovery Voltage (UPS Mode)	245 Volts (+/- 5V)					
Grid Input Frequency Range	47-53 Hz					
DISPLAY/PROTECTIONS/INDICATIONS						
	PV: Reverse Polarity, Battery Reverse Power, PV Power Li	mit				
Protections	Battery: Under Voltage Cut, Over Voltage Cut, Reverse Po	plarity, Overcharge Limit (BCL), Battery Fuse				
	Grid: Over Voltage, Under Voltage, Over Frequency, Under Frequency, Grid Fuse Fail					
	Load: Overload, Short Circuit, Over Heat, Output Low, Grid Back Feed, Prevent Ph to Ph condition Grid Supply					
	PV: Voltage, Amps, Power, Today KWH, Total KWH Genera	ation. Battery: Voltage, Amps, Charge/ Discharge Status				
	Grid: Voltage, Frequency.,Load: Voltage, Load %, Frequency.					
Display Parameters	System: Operating Modes (UPS/ Wide Range), Priority Selection, Grid Charging Enable/ Disable, Battery					
	Status (Charging/ Discharging) Start Up: WELCOME, Firmware versions					
	PV: PV Over Voltage					
	Battery: Battery Under Voltage, Battery Over Voltage					
Display Faults	Gridt Back Feed, Under/ Over Voltage ,Fuse Fail Load: OverNota, O/P Short Circuit System: Over Temperature					
Audio Buzzer	Overloads, Short Circuit, Low Battery Alarm, Battery Under Cut, Change in Grid Status (Beep), Grid Fuse fail, PV Over Voltage, Grid Over Voltage					
Front Panel LED	Power ON, Inverter ON, SPV Present/ SPV Charging, Grid Present/ Grid Charging, Battery Under Cut/ Alarm, Fault					
Front Panel Switches		, UP, DOWN, BACK, ENTER				
Display Type	16 x 2 Alpha Numeric	Display with Backlight				
ENVIRONMENT						
Operating Temperature	0-50 degre	es Ambient				
Max Relative Humidity @25°C (non Condensing)	95%					
Degree of Protection	IP20					
Dimensions (LxWxH)	503X272X575 (in mm)	553X270X575 (in mm)				
Noise @ Imeter						
Cooling	60 dB Temp Controlled Fan Cooled					
5	pr notice due to constant improvement in design a					
specifications are subject to change without pric	si notice due to constant improvement in design a	ina connology				



HBD SERIES HYBRID MPPT INVERTER (1P & 3P)

Made for Power-Hungry Solar Applications

Built for large-sized industrial/commercial units requiring enormous and reliable power. Withstands hard Indian weather conditions. This MPPT-based attractive PCU delivers power seamlessly for large-scale applications. Multiple colours/designs are available as per technical specifications and user needs.





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Ideal for huge energy requirements

- Energiaa's *Gold Standard* solar technology
- Active Front-End technology, more battery life
- Maximum solar power extraction under all conditions (High-efficiency MPPT)

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- Tough and Resilient Industrial-grade design
- Battery charging according to Time-of-Day
- Controlled scheduling via keypad or PLC
- BESS Solution peak load shaving/levelling
- Exports excess power to the grid
- Can be AC coupled with String Inverters
- Compatible with Wind, Hydro and Biomass
- Seamless DG set synchronisation



ONGRID SOLAR SYSTEM

On-grid solar power systems, also known as gridtied systems, are photovoltaic (PV) systems that are connected to the electricity grid. These systems allow for the integration of solar energy with the existing power grid, enabling users to both consume and contribute electricity. This setup is particularly popular in residential, commercial, and industrial applications due to its efficiency and cost-effectiveness.

OFFGRID SOLAR SYSTEM

Off-grid solar panel systems are standalone photovoltaic (PV) setups that operate independently of the electricity grid. These systems are ideal for locations where connecting to the grid is not feasible or economical, such as remote areas or off-the-beaten-path locations. They provide a reliable source of electricity by storing energy for use when sunlight is not available.

We provide solar off-grid solutions ranging from 1KW to 50 kW, primarily used in domestic settings, retail shops, petrol pumps, farm houses, and more.



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BOXER

HYBRID SOLAR SYSTEM

Hybrid solar panel systems combine features of both gridconnected (on-grid) and off-grid solar systems. These systems are designed to offer the benefits of solar energy while maintaining a connection to the electricity grid and incorporating battery storage. Hybrid systems aim to maximize energy efficiency, provide backup power, and offer flexibility in energy management.

We Provide Hybrid Solar Solutions Till 15 KW and its mostly uses by commercial, mid level organisation and serving various area like Nursing home, Boutique, Malls Etc.

ENERGY SOTRAGE SYSTEMS (ESS)

Adven

Solar Energy Storage Systems (ESS) are designed to store excess electricity generated by solar photovoltaic (PV) systems for later use. These systems enhance the flexibility and reliability of solar power by allowing users to store energy for times when sunlight is unavailable, such as during the night or cloudy periods. ESS can be integrated with solar PV systems to optimize energy usage, increase self-consumption and provide backup power during outages.



SOLAR WATER PUMP

India's agriculture largely depends on monsoon rains for natural irrigation. To supplement this, pumps are used to supply water artificially. Farmers often rely on grid electricity or diesel generators to operate these pumps, causing delays and financial strain. Therefore, a reliable irrigation solution like the Solar Water Pump proves to be highly beneficial. It ensures a consistent and steady water supply to their fields, enhancing crop productivity.

Solar water pumps utilize photovoltaic technology, converting sunlight into electricity to power the pumping system. This approach replaces the unreliable grid supply and eliminates pollution from diesel-operated pumps. Solar modules drive the system, effectively extracting surface or groundwater for irrigation purposes.

SOLAR ATTA CHAKKI

Rayax Solar Atta Chakki is an innovative solution aimed at promoting sustainable farming and reducing dependency on conventional energy sources. Equipped with high-efficiency solar panels, it provides a reliable alternative to inconsistent electricity, eliminating the need for costly diesel usage during grain grinding.

Beyond financial savings, the Rayax Solar Atta Chakki significantly benefits the environment by producing zero emissions and minimizing carbon footprints, contributing to a cleaner and greener environment. It empowers farmers to preserve their traditional practices while embracing ecofriendly advancements.







The Rays Of Power

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