

RAYAX™

The Rays Of Power



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WHO WE ARE?



Total Project
Installed
1.5 GW+



No. of
Offices
05



Group
Turnover
5000 Cr+



No. of
Manufacturing Plant
03



Team
250+



State Presence
20+



Distributor
200+



Dealer
2500+



OUR GROUP OF COMPANIES



End to End Solar Solutions

India's Only EPCM company delivering end-to-end solutions through a simplified and efficient approach.

Dedicated teams for engineering, project execution, and O&M services.

Customized system designs to ensure maximum resource utilization and performance.

Strong focus on quality and safety, ensuring timely and reliable project delivery.

ABOUT US

Rayax Energy is a fast-growing solar solutions company committed to delivering sustainable, efficient, and customized renewable energy solutions across India. With a strong focus on quality and innovation, we support the nation's transition toward clean and green energy.

We offer a comprehensive range of solar products, including **Solar Modules, On-Grid Inverters, Hybrid Inverters, Lead-Acid Batteries, and Lithium Batteries**, ensuring reliable performance, durability, and advanced technology for residential, commercial, and industrial applications.

Beyond product supply, Rayax Energy specializes in executing solar projects such as **IPP (Independent Power Producer), Utility-Scale Solar Parks, PM-KUSUM Yojana, and Commercial & Industrial (C&I) installations**. We provide end-to-end EPC solutions, covering design, engineering, procurement, installation, and commissioning.

With proven expertise in government and private sector projects, Rayax Energy ensures high efficiency, seamless execution, and long-term value, making us a trusted partner in the renewable energy sector.



Mission

To deliver affordable, high-quality sustainable energy solutions worldwide, fostering better lives through innovative clean energy technologies. We strive to make renewable power accessible to every household and business, driving environmental stewardship and economic growth for a greener, more prosperous future.

Vision

To create accessible clean energy through efficient solar solutions and cost-effective innovations, empowering customers and communities globally. We envision a world where sustainable energy powers progress, eliminates energy poverty, and leads the transition to a carbon-neutral planet for generations to come.

Values

Our values define who we are and guide our actions:

Integrity: We uphold honest and transparent dealings in all our interactions

Respect for Individuals: We foster respect for every individual and prioritize putting the customer first

Passion for Excellence: We continuously strive for improvement, embracing innovation to deliver solutions that exceed expectations



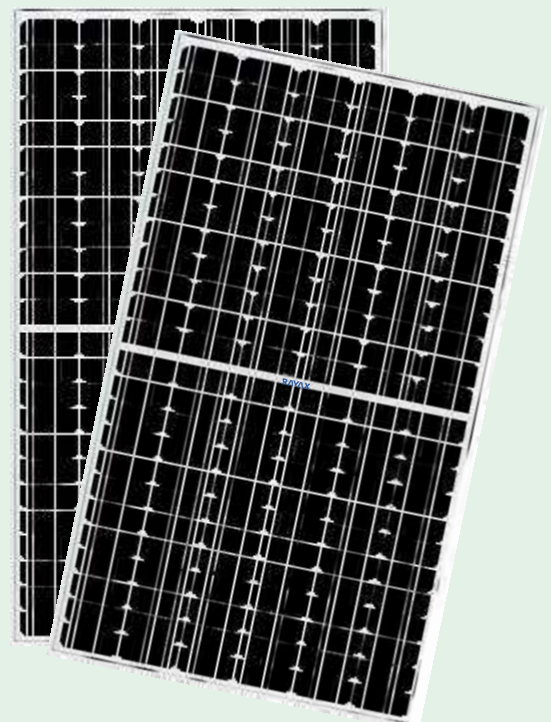
SOLAR PANELS

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

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ON-GRID SOLAR INVERTER

Features

- Smart MPPT Technology :** Maximizes solar energy harvest by continuously tracking the optimal power point.
- IP65 Weatherproof Protection :** Designed for reliable outdoor operation with strong resistance to dust and water.
- Real-Time Mobile Monitoring:** Monitor system performance anytime, anywhere via mobile or web-based platforms.

- Easy Installation & User-Friendly Setup:** Compact design and intuitive interface ensure quick installation and hassle-free operation.
- High Efficiency & Eco-Friendly Design :** Energy-efficient performance supporting sustainable and environmentally responsible power generation.

Residences

Shops

Small Clinics

Gyms

Small Offices

Single Phase

MODEL	GT 1.5K-1P	GT 2.2K-1P	GT 3.0K-1P	GT 4.0K-1P	GT 5.0K-1P	GT 6.0K-1P
Input Side						
MAX. DC Input Power (kW)	2	2.9	3.9	5.2	6.5	7.8
MAX. DC Input Voltage (V)	550	550	550	550	550	550
Start up DC Input Voltage (V)	80					
MPPT Operating Range (V)	70-500					
MAX DC Input Current (A)	20					
MAX Short Circuit Current (A)	30					
No. of MPP Tracker	1	1	1	1	1/2	1/2
No. strings per MPP Tracker	1	1	1	1	1	1
Output Side						
Rated Output Power (kW)	1.5	2.2	3	4	5	6
MAX. Active Power (kW)	1.65	2.42	3.3	4.4	5.5	6.6
Rated Output Voltage/Range (V)	230V AC (L+N+E)					
Rated Grid Frequency (Hz)	50/60 (Optional)					
Operating Phase	Single Phase					
Rated AC Grided Output Current (A)	6.5	9.6	13	17.4	22.8/21.8	27.3/26.1
MAX AC Output Current (A)	7.2	10.5	14.3	19.1	25/24	30/28.7
Output Power Factor	0.8 leading to 0.8 lagging					
Total Harmonics Current Distortion (tdDi)	<3%					
DC Injection Current (mA)	<0.5%					
Grid Frequency Range (Hz))	45-55					
Efficiency						
Max Efficiency (Inverter)	97.30%	97.30%	97.50%	97.50%	97.50%	97.50%
Euro Efficiency	97.10%	97.10%	97.30%	97.30%	97.30%	97.00%
MPPT Efficiency	>99%	>99%	>99%	>99%	>99%	>99%
General Data						
Size (mm)	280Wx310Hx184D				330Wx323Hx190D	
Weight (kg)	4.8				7.7	
Topology	Transformerless					
Internal Consumption	<1W (Night)					
Operating Temperature	-25°C to +60°C (derating above 45°C)					
Ingress Protection	IP65					
Noise Emission (Typical)	<35dB					
Cooling Type	Natural Cooling					
Max. Operating Altitude Witdout Derating	2000m				3000m	
Humidity	0-100% (Non Condensing)					
Display	LCD1602					
Interface	RS485/RS232/WiFi/GPRS					

Three Phase

MODEL	GT 5.0K-3P	GT 6.0K-3P	GT 8.0K-3P	GT 10K-3P	GT 12K-3P
Input Side					
MAX. DC Input Power (kW)	6.5	7.8	10.4	13	15.6
MAX. DC Input Voltage (V)	1100				
Start up DC Input Voltage (V)	140				
MPPT Operating Range (V)	120-1000				
MAX DC Input Current (A)	20+20				
MAX Short Circuit Current (A)	30+30				
No. of MPP Tracker	2				
No. strings per MPP Tracker	1+1				
Output Side					
Rated Output Power (kW)	5	2.2	3	4	5
MAX. Active Power (kW)	5.5	2.42	3.3	4.4	5.5
Rated Output Voltage/Range (V)	400V AC (3P+N+E)				
Rated Grid Frequency (Hz)	50/60 (Optional)				
Operating Phase	tdree Phase				
Rated AC Grided Output Current	7.6/7.2	9.6	13	17.4	22.8/21.8
MAX. AC Output Current (A)	8.3/8	10.5	14.3	19.1	25/24
Output Power Factor	0.8 leading to 0.8 lagging				
Total Harmonics Current Distortion (tdDi)	<0.3%				
DC Injection Current (mA)	<0.5%				
Grid Frequency Range (Hz)	45-55				
Efficiency					
Max Efficiency (Inverter)	98.30%	98.30%	98.30%	98.30%	98.30%
Euro Efficiency	97.50%	97.50%	97.50%	97.50%	97.50%
MPPT Efficiency	>99%	>99%	>99%	>99%	>99%
General Data					
Size (mm)	330Wx457Hx203D				
Colour Shade	383638 8716C				
Weight (kg)	11				
Topology	Transformerless				
Internal Consumption	<1W (Night)				
Operating Temperature	-25°C to +60°C (derating above 45°C)				
Ingress Protection	IP65				
Noise Emission (Typical)	<30 dB				
Cooling Type	Natural Cooling				
Max. Operating Altitude Witdout Derating	4000m				
Humidity	0-100% (Non Condensing)				
Display	LCD1602				
Interface	RS485/RS232/WiFi/GPRS				

HYBRID BOXER INVERTER

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

Features

- Seamless changeover: Instant power source switching.
- Battery-less on demand: Runs without batteries when possible.
- Grid export at lean loads: Sell excess power to grid.
- 20% PV overload: Extra solar input capacity.
- Li+ brand compatible: Flexible lithium battery options.
- Heavy loads incl. 1.5T AC: Powers AC and more.

RATINGS	1KVA/48V	2KVA/48V	3KVA/48V	4KVA/48V	5KVA/48V
MODEL NO.	BOX-048-01K-1P	BOX-048-2K-1P	BOX-048-03K-1P	BOX-048-04K-1P	BOX-048-05K-1P
A.MPPT CHARGER					
Type (Buck)	MPPT				
PV Normal Capacity (Kwp)	1.2	2.4	3.6	4.8	6
Max PV Strings in parallel	1	2	3	4	5
No of MPPT Channel/No. of Input	1/1				
Max. Open Circuit Voltage (Voc)*	190				
MPPT Tracking Range (Vmp)*	75-160				
Max Output Current (A)	23	46	71	94	118
Peak Charging Efficiency	≥92%		≥94%		
B. SOLAR INVERTER					
Nominal Capacity	1KVA	2KVA	3KVA	4KVA	5KVA
Output Current(A)	3.5	7	10	14	17
Battery Voltage(V)	48				
Output Voltage/Freq/Phase	230V(± 2%) / 50Hz/ 1P+N				
Load Power Factor	0.8- unity				
Peak Efficiency	>88 %				
Over Loads: 120 sec/ 5 sec/ 2.5 sec	101-110%/111-150% /151-200%/>200% Immediate trip				
Auto Bypass Feature	Provided				
Anti Islanding/ Power Export to Grid	Provided (As per IEC 62116 & IEC 61727)				
C. GRID CHARGER					
Grid Voltage Range	230V (+10% & -20%)				
Grid freq Range	50Hz (+5% & -5%)				
Max Grid Import Power	1.5KVA	3KVA	4.5KVA	6KVA	7.5KVA
D. PROTECTIONS & DISPLAY PARMETERS					
	PROTECTIONS			DISPLAY PARAMETERS	
PV Side Battery Side Grid Side Load Side System Protection	- Reverse Polarity, PV Power Limit, Surge Protection (MOV),O/P voltage - Reverse Polarity, O/U Voltage, Current Limit - O/U Voltage, O/U Frequency, Surge Protection (MOV) - Overloads, Short circuit, Surge Protection (MOV) - Over Temperature			- Voltage, Charger O/P Amps, Power, Cumulative Energy - Voltage, Current, Battery State - Phase Voltage, Frequency, Power, Power Factor - Voltage & Current, Frequency, Power, Export kWh - Mode of Operation, Active Faults	
E. MISCELLANEOUS					
Switchgear Protection	MCB/MCCB provided on PV, Battery, Load & Grid path				
LED Indications	Power On, Inverter ON, Solar, Load ON, Grid/Charging, Battery Low, Trip				
Data Port	RS485 / RS232 (Optional)				
Remote Monitoring	Optional via GPRS / WIFI				
Ingress Protection	IP20 (Indoor)				
Cooling Method	Forced Cooling (Temp Controlled)				
Operating Temperature	0-50 degrees (without Derating)				
Humidity	Max. 95% Non-Condensing				
Altitude	1000m above sea level				

Applications



Office Buildings



Mini Grids



Telecom BTS



Railway Signaling



Cold Storage



Process Industries

HYBRID INVERTER

Range : 3 KW - 12 KW

Features

- **Hybrid Functionality:** Seamlessly integrates solar, grid, and battery power for continuous, reliable energy supply in all conditions.
- **High Efficiency:** Delivers up to 97.8% conversion efficiency with over 99% MPPT tracking accuracy for optimal energy harvest.
- **Smart Energy Management:** Features zero-export, peak shaving, and time-of-use settings to maximize savings and grid compliance.
- **Backup Power Ready:** Ensures uninterrupted power during grid outages with fast automatic switchover capabilities.
- **Smart Monitoring:** Supports Wi-Fi, RS485, and optional GPRS for real-time monitoring, remote access, and firmware updates.



Single Phase

Model	GTSI-0304K1P	GTSI-3.605K1P	GTSI-0506K1P	GTSI-0608K1P	GTSI-0810K1P	GTSI-1012K1P
Battery Input Data						
Battery Type	Lead-acid or Lithium-ion					
Battery Voltage Range (V)	40-60					
Max. Charging Current (A)	70	90	120	135	190	210
Max. Discharging Current (A)	70	90	120	135	190	210
Charging Strategy for Li-ion Battery	Self-adaption to BMS					
Number of Battery Input	1					
PV Input String Data						
Max. PV Input Power (W)	4800	5760	8000	9600	12800	16000
Max. PV Input Voltage (V)	500					
Start-up Voltage (V)	125					
MPPT Voltage Range (V)	150-425					
Rated PV Input Voltage (V)	370					
Max. Operating PV Input Current (A)	18	18+18				26+26
Max. Input Short-Circuit Current (A)	27	27+27				34+34
No. of MPPT Trackers/Strings	1/1	2/1+1				2/2+2
AC Input/Output Data						
Rated Output Apparent Power (VA) (@0.8 PF)	3750	4500	6250	7500	10000	12500
Rated Output Power (W)	3000	3600	5000	6000	8000	10000
Rated AC Output Current (A)	13.1	15.7	21.8	26.1	34.8	43.5
Max. AC Input/Output Current (A)	14.4	17.3	24	28.7	38.3	47.9
Peak Power (Off-grid) (W)	2 times of rated power, 10s					
Power Factor Adjustment Range	0.8 leading to 0.8 lagging					
Rated Input/Output Voltage Range (Vac)	220/230 0.85Un-1.1Un					
Rated Frequency (Hz)	50-60 Hz					
Grid Connection Form	L+N+PE					
Total Current Harmonic Distortion (THDI)<3% (of nominal power)						
Efficiency						
Max. Efficiency	97.60%					
Euro Efficiency	96.50%					
MPPT Efficiency	>99%					
Equipment Protection						
Protection	PV Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, Island Protection Monitoring, Battery Power Polarity Protection, SPD Inbuilt					
Surge Protection	TYPE II (DC), TYPE II (AC)					
Interface						
Communication Interface	RS485/RS232/CAN					
Remote Monitoring	GPRS/WIFI					
General Data						
Permissible Ambient Humidity	0-100%					
Permissible Altitude	2000m					
Ingress Protection (IP) Rating	Ip65					
Inverter Topology	Non-Isolated					
Over Voltage Category	OVC II (DC), OVC III (AC)					
Cabinet Size (WxHxD mm)	330x433x229			330x580x232		420x670x233
Weight (kg)	17			24.9		35.6
Type of Cooling	Natural Cooling			Intelligent Air Cooling		

Three Phase

Model	GTSI— 050K3P	GTSI— 060K3P	GTSI— 080K3P	GTSI— 1012K3P	GTSI— 1215K3P	GTSI— 150K3P	GTSI— 2025K3P
Battery Input Data							
Battery Type	Lead-acid or Lithium-ion						
Battery Voltage Range (V)	40-60						
Max. Charging Current (A)	120	135	190	210	240	280	350
Max. Discharging Current (A)	120	135	190	210	240	280	350
Charging Strategy for Li-ion Battery	Self-adaption to BMS						
Number of Battery Input	1						
PV String Input Data							
Max. PV Input Power (W)	7500	9000	12000	15000	18000	24000	32000
Max. PV Input Voltage (V)	800						
Start-up Voltage (V)	160						
MPPT Voltage Range (V)	200-650						
Rated PV Input Voltage (V)	550						
Max. Operating PV Input Current (A)	20+20	20+20	20+20	20+20	36+36	36+36	36+36
Max. Input Short-circuit Current (A)	30+30	30+30	30+30	30+30	54+54	54+54	54+54
No. of MPPT/Strings per MPPT	2/1+1	2/1+1	2/1+1	2/1+1	2/2+2	2/2+2	2/2+2
AC Output Data							
Rated AC Output Power (W) (@0.8PF)	6250	7500	10000	12500	15000	18750	25000
Rated AC Output Apparent Power (VA)	5000	6000	8000	10000	12000	15000	20000
Rated AC Input/Output Voltage (Vac)	220/380, 230/400, 240/415, 3L+N+PE						
Rated Grid Frequency (Hz)	50-60						
Efficiency & Cooling							
Max. Efficiency	97.6%						
Euro Efficiency	97.0%						
MPPT Efficiency	>99%						
Ingress Protection	IP65						
Cooling	Intelligent Air Cooling						

Features

- **Heavy-Duty Performance:** Built for demanding high-load applications, ensuring reliable operation under intensive usage.
- **Flexible Energy Modes:** Choose battery-first or solar-first priority for customized energy optimization and cost control.
- **Dual MPPT Trackers:** Maximizes solar harvest from multiple rooftop arrays for superior efficiency in any condition.
- **Remote Diagnostics:** Monitor and troubleshoot via mobile app or cloud platform for effortless maintenance.
- **Perfect Fit Applications:** Tailored for schools, offices, and bungalows with scalable power solutions.

HYBRID INVERTER SINGLE PHASE (IP 21)

Range : 1.6 KW to 11KW

FR Series High Frequency Hybrid Inverter

- High frequency inverter, lighter weight with higher efficiency
- Output power factor PF=1
- lithium battery activation start function with ac and solar mode
- Parallel function of expansion power
- Higher solar charging efficiency and battery protection
- Pure sine wave output, adaptable to different loads
- 500V high PV input
- Optional WIFI function
- Working with or without battery



Key Features:



MODEL	FR36245MH	FR62485MH	FR110485MH
Input Side			
Phase	L+N+PE		
Nominal Voltage	208/220/230/240VAC		
Voltage Range	90-280VAC 3V(Normal Mode) 170-280VAC±3V (UPS Mode)		
Frequency Range	50Hz/60Hz Adaptive)		
Output Side			
Rated Power	3600W	6200W	6200W
Output Voltage(AC)	208/220/230/240VAC±5%		
On/Off grid	Optional		
Output Frequency	50/60Hz±0.1%		
Waveform	Pure sine wave		
Transfer Time Optional)	10ms for computer, 20ms for home appliances		
Peak power	7200VA	12400VA	22000VA
Overload	Battery Mode: Imin@102%~110% Load 10s@110% 130% Load 35@130%-150% Load 200ms@>150% Load		
Peak efficiency (battery mode)	>94	94	94
Battery			
Rated voltage	24Vdc	48Vdc	48Vdc
Constant voltage charging voltage (Optional)	28.2Vdc	56.4Vdc	56.4Vdc
Floating charge voltage (Optional)	27Vdc	54Vdc	54Vdc
Charger			
PV charging method	MPPT	MPPT	MPPT
PV max input power	5000W	8500W	15000W
MPPT tracking range	60~500Vdc	60~500Vdc	90~500Vdc
Max PV input current	15A	27A	27Ax 2
Max PV input voltage	500Vdc	500Vdc	500Vdc
Max PV charging current	120A	120A	150A
Max AC charging current	100A	100A	150A
Max charging current	120A	120A	150A
Display			
LCD display	Can display operating mode/load/input/output		
Communication Port			
Rs232	SPIN/Pitch2.0mm, baud rate 2400		
Expansion & Configuration. Port	2x5PIN/Pitch2.54mm, lithium battery BMS communication card, WIFI card, dry contact card, etc.		
Parallel Interface	No	Available Upto 9 units (6.2KW Also available w/o parallel)	
Environmental parameters			
Operating environment temperature	-10-60°C		
Operating environment humidity	20%~95% (Non condensing)		
Storage temperature	-15-60°C		
Altitude	The altitude should not exceed 1000m, derating above 1000m, up to 4000m, refer to IEC62040		
Noise	-15-60°C		
Certifications			
	EN-IEC 60335-1, EN-IEC 60335-2-29, IEC 62109-1		



SOLAR PWM PCUs

Range : 1.5 KVA – 5.5 KVA

Parameter	1050	1250	1700	3500	5500
DC BUS	12V			24V	48V
No Load Current	< 1.2 A				
Output Voltage @ No Load	< 240VAC @12.0 VDC			< 240VAC @24.0 VDC	< 240VAC @48.0 VDC
Battery Low Alarm	10.7 ± 0.2V			21.4 ± 0.4V	42.8 ± 0.8V
Battery Low Shutdown	10.5 ± 0.2V			21.0 ± 0.4V	42.0 ± 0.8V
Short Circuit Protection	YES				
Inverter Output Frequency	50 Hz ± 0.1 Hz				
UPS Mode					
Mains Input Voltage Range	170V to 265V				
Mains AC Low Cut	170VAC ±10VAC				
Mains AC Low Cut Recovery	15A-20A				
Mains AC High Cut	265VAC±10VAC				
Mains AC High Cut Recovery	255VAC ±10VAC				
Maximum Change Over Time	< 8 msec				
Wide UPS Mode					
Mains Input Voltage Range	90V to 290V				
Mains AC Low Cut	90VAC ±10VAC				
Mains AC Low Cut Recovery	110VAC ±10VAC				
Mains AC High Cut	290VAC±10VAC				
Mains AC High Cut Recovery	280VAC ±10VAC				
Maximum Change Over Time	< 18 msec				
Charging Mode					
Charging Current @ 220V AC	15A-20A			28.8V ±0.4V	57.6V ± 0.8V
Boost Voltage (Tubular Mode)	14.4V ± 0.2V			28.0V ±0.4V	56.0V ±0.8V
Boost Voltage (Lead Acid Mode)	14.0V ±0.2V			27.2V ± 0.4V	54.4V ±0.8V
Float Voltage	13.6V ± 0.2V				
Battery Low Cut Off	1 Time				
Overload (Auto Retries)	4 Time				
Short Circuit (Auto Retries)	3 Time				
Over Temperature	3 Time				
Battery Over Charge	YES				
Input Protection	YES (Resettable Fuse)			YES (Mains MCB Trip)	
Environment					
Storage Temperature	0 to +40°C				
Operating Temperature	0 to +40°C				
Humidity	0-95% Non-Condensing				
Acoustic Noise (1 m)	< 45 dB				
Protection Class	IP-20				

Features

70V Powerful Charging for faster and efficient battery performance

Built-In Isolation Transformer for superior safety and grid protection

24×7 DC MCB Double-Pole Protection for reliable system security

Instant Changeover with zero power interruption

Generator Compatible for extended backup support

16×2 LCD Display for easy system monitoring

SOLAR MPPT PCUs

Range : 5 KW -20 KW



Features

- MPPT Technology for maximum solar power utilization
- Reduced Grid Dependency for greater energy independence
- Three Priority Modes to customize power usage
- Optional Grid Charging for added flexibility
- LCD Display for clear system monitoring
- Optional Two-Way IoT Access for remote control and real-time insights



Section	Parameter	5KVA/96V	6KVA/96V	7.5KVA/96V	5KVA/120V	7.5KVA/120V	10KVA/120V	12.5KVA/120V	15KVA/120V	15KVA/240V	20KVA/240V
A. MPPT CHARGER											
	Type (Buck)	MPPT									
	PV Nominal Capacity (Total Kw)	5	6	7.5	5	7.5	10	10	15	15	20
	Max PV String in Parallel	3	4	5	3	5	6	6	9	5	6
	No of MPPT Channel/Input	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
	Max Open Circuit PV Voltage (Voc)	320	320	320	320	320	320	320	320	650	650
	MPPT Voltage Range (Vmp)	165-280	165-280	165-280	165-280	165-280	165-280	165-280	165-280	330-570	330-570
	Max Output Current (A)	50	60	75	40	60	80	80	120	60	80
	Peak Charging Efficiency	≥ 94%									
B. SOLAR INVERTER											
	Nominal Capacity	5KVA	6KVA	7.5KVA	5KVA	7.5KVA	10KVA	12.5KVA	15KVA	15KVA	20KVA
	Output Current (A)	17.5	21	26	17.5	26	35	43.5	52	52	70
	Battery Voltage (V)	96	96	96	120	120	120	120	120	240	240
	Output Voltage / Frequency / Phase	230V (±2%) / 50Hz / 1P+N									
	Peak Efficiency	≥ 88%									
	Overload (60s / 30s / 5s)	101-110% / 111-150% / 151-200%									
	Auto Bypass Feature	Provided									
C. GRID CHARGER											
	Grid Voltage Range (V)	230V (+10% / -20%)									
	Grid Frequency Range (Hz)	50Hz (+5% / -5%)									
	Max Grid Import Power	7.5KVA	9KVA	11.25KVA	7.5KVA	11.25KVA	15KVA	18.7KVA	22.5KVA	22.5KVA	30KVA
D. MISC											
	Dimensions (HxWxD)	650×375×625	650×375×625	550×325×697	650×375×625	650×375×625	550×325×697	650×450×753	667.5×500×700	650×450×753	667.5×500×700

E- Lithium



Features

- **Heavy Load Performance** : Powers heavy appliances with ease, including a 1.5-ton inverter AC on EL 3532, and is built to withstand overloads up to 200%.
- **Lithium Advantage** : Zero battery maintenance, superior performance with heavy motor loads, longer battery life, and higher usable kWh per cycle.
- **Premium Design** : Sleek wall-mounted form factor with minimalist colors that blend seamlessly with modern home décor—no messy or exposed battery wiring.
- **Plug 'N' Play Convenience** : Factory-fitted LFP battery ensures quick setup. Simply connect PV, GRID, and LOADS for instant operation.
- **DIY Friendly Installation** : Designed for hassle-free installation with zero technical expertise required.

Category	Important Parameter	Technical Value
Model Information	Important Parameter	Technical Value
Battery Storage	Model Number	ESS 3532
	Battery Chemistry	Lithium Ferro Phosphate (LFP)
	Nominal DC Voltage	25.6V
	Battery Undercut	23.5V/10% SoC (Settable)
Solar MPPT	Max Connected PV Modules	3000 Watts
	Max. Open Circuit Voltage (Voc)	110V
	MPPT Voltage Range (Vmp)	60-88 Volts
	Max MPPT Output Current	100 Amps
	Switching Element	IGBT
Inverter Output	Rated Output Voltage	220 V
	Surge/Overload Capacity	151-200% (5 Seconds)
	Waveform Type	Pure Sine Wave
	Peak Inverter Efficiency	>85%
	Changeover Time (UPS Mode)	<15 msec
Grid Charging	Max Battery Charging (Grid)	25 Amps
Grid Charging	Input Source Support	Grid/Diesel Generator
Physical	Dimensions (WxHxD)	535 x 290 x 335 mm
	Weight (Approx)	62 KG
	Ingress Protection	Ip20



25A
SUPER FAST
CHARGING



Li UPS 1250

Features

- **Fast Charging:** 3.6A with built-in BMS for safe, efficient recharging.
- **Backup Time:** Up to 30 minutes on low voltage cut-off at 180V.
- **Long Life:** 5000 cycles for extended durability.
- **Maintenance Free:** No LCD display; no fumes or acid spills.
- **Pure Sine Wave:** Clean output ideal for sensitive electronics

BATTERY	
Rated Voltage	12.8V
Rated Capacity	100Ah
Configuration	4S1P (4 Series, 1 Parallel)
Rated Energy	1280Wh
Cut-off Voltage Range	11.8V-13.8V
Charging Mode	CC-CV (Constant Current-Constant Voltage)
Standard Discharging Current	65A
Allowed Depth of Discharge (DoD)	80
UPS	
Technology	DSP Pure Sine Wave using Heavy Duty MOSFET
Display	LCD Display (16 x 2)
Isolation	Built-in Galvanic Isolation Transformer
Bypass	Automatic Bypass
Charging Current	25 Amp
Compatibility	Generator Compatible

Lithium Battery

Range : 1 KWh - 100 KWh

A Lithium Battery represents the future of energy storage - compact, powerful, and long-lasting. Designed with cutting-edge lithium-ion technology, it delivers superior efficiency, fast charging, and exceptional durability compared to traditional lead-acid batteries. Whether used in solar power systems, electric vehicles, or home backup setups, lithium batteries ensure reliable and uninterrupted power with minimal maintenance.



Features

- **High Energy Density** : Stores more power in a compact, lightweight design.
- **Low Self-Discharge** : Retains charge for long periods when not in use
- **Long Lifespan** : Typically lasts 2000+ charge-discharge cycles.
- **Maintenance-Free** : Sealed design with zero servicing or upkeep required.
- **Fast Charging** : Quick charge capability with minimal downtime.
- **Lightweight & Compact** : High performance in a smaller, portable footprint.



Residences



Shops



Hospital



School



Gyms



Office



Bank

MAIN PARAMETERS

Model No.	H-PACK 12100	H-PACK 25100	H-PACK 48100	H-PACK 51100
ELECTRICAL				
Rated Energy (kWh)	1.28	2.56	4.8	5.12
Nominal Voltage (V)	12.8	25.6	48	51.2
Operating Range (V)	11.2 ~ 14.4	22.4-28.8	42 ~ 54	44.8 ~ 57.6
Battery Configuration	4S1P	8S1P	15S1P	16S1P
Cell Capacity (Ah)	100			
Discharge Current (A)	40 / 80 max		50 / 100 max	
Charging Current (A)	20 / 40 max	30 / 50 max		
Cell Chemistry	3.2V 100Ah Prismatic Cell			
Dimension W*D*H (mm)	365 * 125 * 275	365 * 175 * 420	450 * 177 * 650	
Weight (Kg)	13	26	52	54.5
Humidity	3.2V 100Ah Prismatic Cell			
Operating Temp. (°C)	0 °C to 55 °C			
Storage Temp. (°C)	15 °C to 40 °C			

ADDITIONAL FEATURES

Life Cycle	5 Years / ≥3000 cycles @ambient 25°C
Protection	Over & Under Voltage / Over Current / Over Temperature (Individual cell NTC), Voltage / Temp delta.
Communication	RS 485/ CAN
Application	Residential Inverters, Off Grid Inverters, Hybrid Inverters
IP Rating	IP 20
Display	Interactive display for data monitoring

Compatible Inverters

Deye



SOLINTEG



STUDER



victtron energy



SGFAR



Schneider Electric



LUPOWERTEK



Solar Battery

Range : 180 AH - 230 AH



Features

- High Charge Retention
- Deep Cycle Durability
- Low Maintenance Design
- Long lifecycle
- Suitable for any solar set up

Model Name	Container Type	Storage Capacity	Warranty	Backup @400W	Gross Weight	Dimension
RS-1836	Tall Tubular	180 AH	36+24 Months*	220 Min	61 KG	505*190*410 MM
RS-2336	Tall Tubular	230 AH	36+24 Months*	280 Min	67 KG	505*190*410 MM

Inverter Battery

Range : 150 AH - 300 AH

Features

- Longer cycle life & low maintenance.
- Tubular designed plates.
- Excellent charge acceptance.
- Suitable for frequent power cuts.



Model Name	Container Type	Storage Capacity	Warranty	Backup @400W	Gross Weight	Dimension
RI-15000	Tall Tubular	150 AH	30+24 Months*	150 Min	56 KG	505*190*410 MM
RI-16000	Tall Tubular	160 AH	36+24 Months*	170 Min	58 KG	505*190*410 MM
RI-22000	Tall Tubular	220 AH	36+24 Months*	260 Min	64 KG	505*190*410 MM
RI-25000	Tall Tubular	250 AH	36+24 Months*	290 Min	68 KG	505*190*410 MM
RI-30000	Tall Tubular	300 AH	36+24 Months*	360 Min	73 KG	505*190*410 MM



EPC SERVICES



Innovation-Driven Approach

Delivering advanced engineering solutions with modern technologies and optimized system design.



Strong Market Presence

Recognized for reliable execution and trusted partnerships across the renewable energy sector.



Customer-Centric Relationships

Building long-term partnerships through transparency, performance, and service excellence.



Robust Partner Network

Well-established ecosystem of suppliers, contractors, and technical experts.



Experienced & Skilled Team

Dedicated professionals ensuring precision, safety, and high-quality project delivery



Certified Quality Standards

Compliance with industry certifications and strict quality control practices.



Proven Project Execution

Strong track record of efficient timelines and successful project commissioning



Integrated Solutions Under One Roof

From engineering and procurement to construction and commissioning.



Trust, Reliability & Resolution

Delivering advanced engineering solutions with modern technologies and optimized system design.



250+ MW Projects Delivered

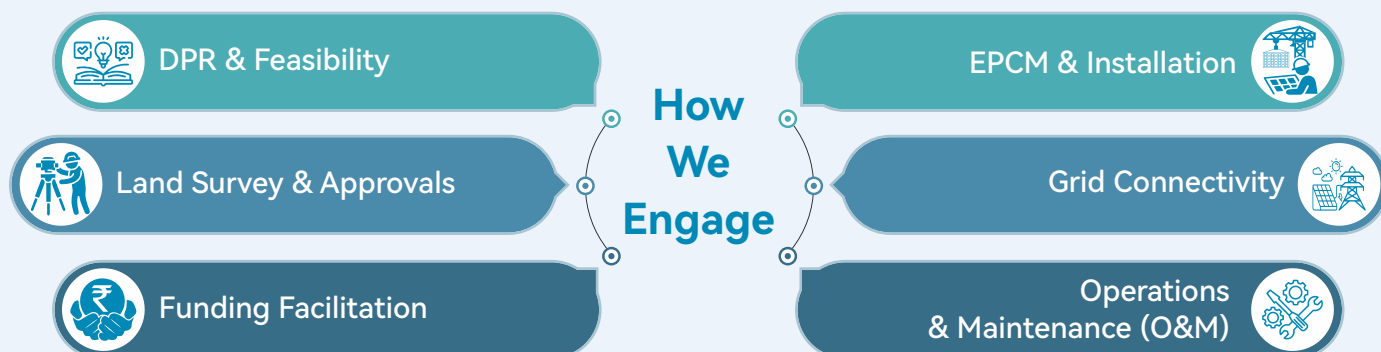
Recognized for reliable execution and trusted partnerships across the renewable energy sector.



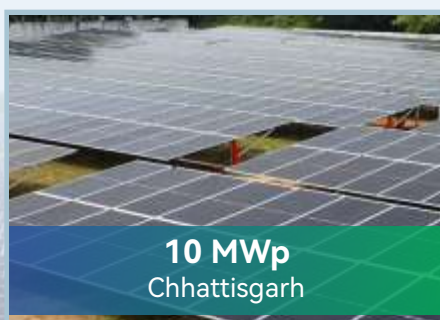
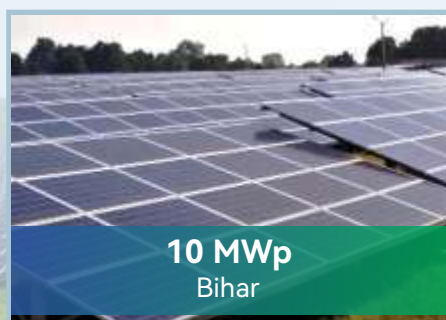
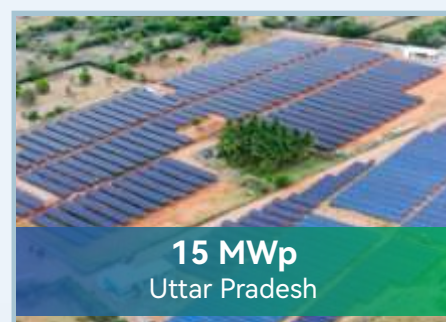
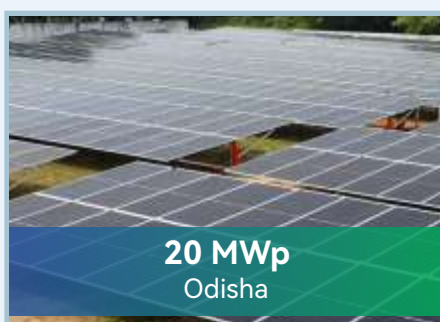
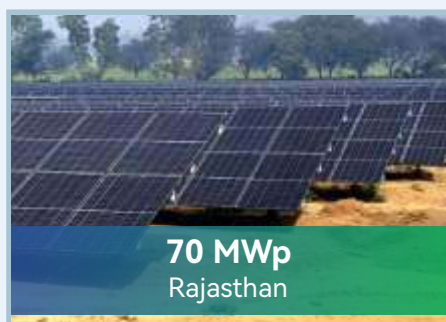
PM-KUSUM A & C

Rayax Energy Pvt. Ltd. is proud to partner in the Government of India's flagship PM-KUSUM Scheme (Component A & C) — a mission designed to empower farmers, strengthen rural income streams, and rapidly scale solar generation across the country.

Under PM-KUSUM, farmers, panchayats, cooperatives, and FPOs can develop solar power plants from 500 KW to 2 MW under Component A & 500 KW to 5 MW under component C right on their land — turning unproductive space into secure 25-year income assets.



OUR PROJECTS UNDER PM- KUSUM



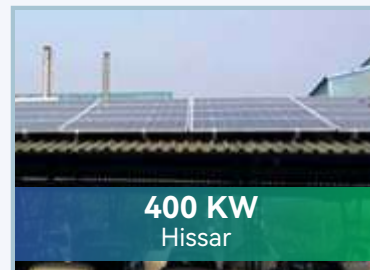
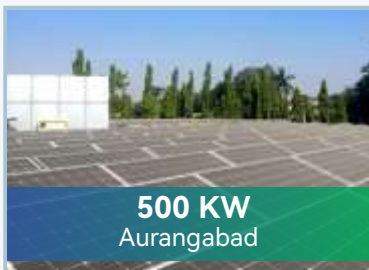
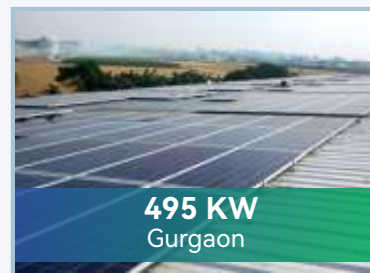
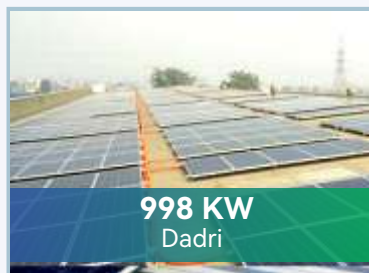
Multiple projects are currently under execution, with a combined capacity exceeding 250 Mw.

COMMERCIAL & INDUSTRIAL (C&I) SOLAR

Reliable On-Site Power for Business Operations

C&I Solar PV systems are designed for commercial and industrial facilities such as factories, cold storages, institutions, and infrastructure assets. These systems typically range from 100 kW to several MW and are deployed to reduce electricity costs, improve energy reliability, and support sustainability goals.

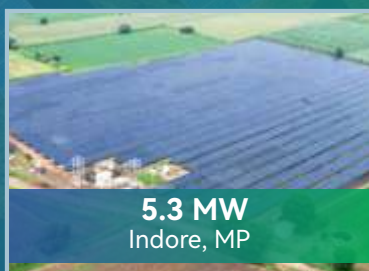
Rayax Energy delivers customized C&I solar solutions, including on-grid, hybrid, and battery-integrated systems, supported by smart energy management features such as net metering and policy-linked financial benefits.



Installed 100+ small projects (below 100 KW) and Currently executing projects with a total capacity of 10 MW+.

INDEPENDENT POWER PRODUCER (IPP)

Rayax Energy operates as an Independent Power Producer (IPP), developing, owning, and operating power generation assets that deliver dependable electricity and stable long-term returns. Our IPP platform is designed to support utilities, industries, and commercial consumers with efficient, future-ready energy solutions.



ULTRA MEGA SOLAR PARK (UMSP)

Ultra Mega Solar Parks (UMSP) are India's flagship utility-scale solar zones designed to transform large land parcels into world-class renewable energy hubs, typically hosting 500 MW to 1000 MW capacity. Rayax Energy collaborates with state nodal agencies, IPPs, corporates, and investors to develop future-ready solar assets that deliver reliable power, strong financial returns, and long-term sustainability. These solar parks are being strategically developed across North-East States, Himachal Pradesh, Uttarakhand, Jammu & Kashmir, and various Union Territories and smaller states (population below 2 crore), where projects of 100 MW and above are encouraged to expand renewable infrastructure in emerging regions.



HYBRID SOLAR PV SYSTEM

A Hybrid Solar PV System combines solar photovoltaic panels, battery energy storage, and the utility grid into a single intelligent energy solution. This configuration delivers uninterrupted power by generating solar electricity, storing surplus energy in batteries, and drawing from the grid only when required.

Hybrid systems provide the flexibility of both on-grid and off-grid operation, ensuring energy security, operational continuity, and optimized power costs.







RAYAX™

The Rays Of Power

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