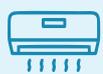
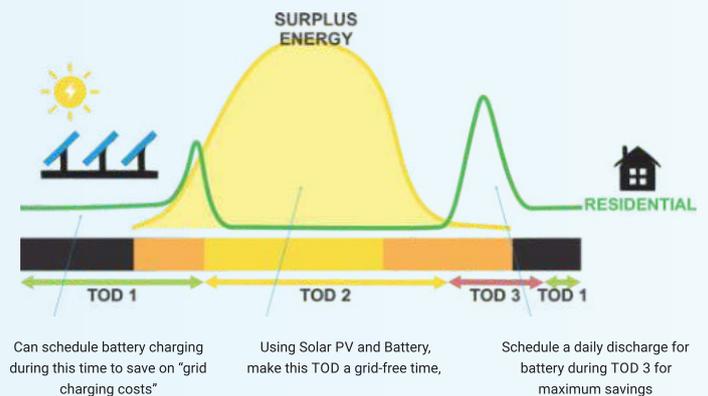


ENERGY STORAGE SYSTEM (Li+ ESS)

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. 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.



HEAVY LOADS

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



ELITHIUM 3532

"Too much R&D expense in the industry is spent on cost reduction only, this is an honest effort to bring out the best product, rather than the cheapest one"



TECHNICAL SPECIFICATIONS

PARAMETER	RATING
Model Number/Name	Elithium 3532
Nominal DC Voltage	25.6V
MPPT CHARGER	
Type of Charger	MPPT
No of MPPT Channels	One
Switching Element	IGBT
Max. Connected PV Modules	3000 Watts
Max MPPT Output Current	100 Amps
Max Battery Charging Current (Settable)	05-45 Amps
Max. Open Circuit PV Voltage (VOC)	110V
MPPT Voltage Range (VMP)	60-88 Volts
Min. PV Voltage	60 Volts
Max. Input PV Current	40 Amps
Recommended PV Configuration (for Polycrystalline)	2 Series x 3 Parallel
Max. Input PV Current	93%
SOLAR INVERTER	
Input Power at Peak Load	2500 Watts
Switching Element	MOSFET
Nominal Battery Voltage	25.6 V
Nominal Output Voltage	220 V
Nominal Output Frequency	50 Hz
Output Voltage Range (At nominal Battery Volts)	200-220 Volts
Max. Output Nominal Current	9.5 Amps
Overloads	100-125% (120 Seconds), 126-150% (60 Seconds), 151-200% (5 Seconds), > 200% (Immediate)
Overloads Restart (Not applicable for UPS Mode)	3 Times Auto Restart and then Manual Reset
Controller Type	DSP Based
Output Type	Pure Sine Wave
Input Source	PV/ Battery/Grid
Peak Inverter Efficiency	>85%
Total Harmonic Distortion	less than 5 %
Changeover Time in UPS Mode	less than 15 msec
Changeover Time in Wide Range Mode	less than 25 msec
No Load Losses (in standby)	100 mA (Battery side)
UPS Mode (for IT Loads)	Provided
Wide Grid Operation Mode (for Non IT Loads)	Provided
BATTERY	
Battery Under Cut Alarm	LITHIUM 24.0V/≤13% Soc (Settable)
Battery Under Cut	LITHIUM 23.5V/≤10% Soc (Settable)
Load Dependent Battery Undercut Feature	Provided
GRID CHARGER	
Grid Operating Voltage Range (W-UPS Mode)	120-280 Volts (+/-10V)
Grid Under Cut Recovery Voltage (W-UPS Mode)	130 Volts (+/-10V)
Grid Over Cut Recovery Voltage (W-UPS Mode)	265 Volts (+/-10V)
Grid Operating Voltage Range (UPS Mode)	180-260 Volts (+/-10V)
Grid Under Cut Recovery Voltage (UPS Mode)	195 Volts (+/-10V)
Grid Over Cut Recovery Voltage (UPS Mode)	245 Volts (+/-10V)
Load Output Voltage During Bypass Mode	Same as Input Voltage
Grid Input Frequency Range	45-55 Hz
Load Output Frequency During Bypass Mode	Same as Input Frequency
Max Battery Charging Current from Grid	25 Amps
Battery Charging from Grid Enable/ Disable	Provided
Input Source Supported	Grid/ Diesel Generator
DISPLAY/PROTECTIONS/INDICATIONS	
Protections	PV: Reverse Polarity, Battery Reverse Power, PV Power Limit Battery: Under Voltage Cut, Over Voltage Cut, Reverse Polarity, 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
Display Parameters	PV: Voltage, Amps, Power, Today KWH, Total KWH Generation. Battery: Voltage, Amps, Charge/ Discharge Status Grid: Voltage, Frequency, Load: Voltage, Load %, Frequency. System: Operating Modes (UPS/ Wide Range), Priority Selection, Grid Charging Enable/ Disable, Battery Status (Charging/ Discharging) Start Up: WELCOME, Firmware versions
Display Faults	PV: PV Over Voltage, Battery: Battery Under, Battery Over Voltage Grid: Back Feed, Under/ Over Voltage, Fuse Fail. Load: Overload, 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	Reset for System ON/OFF, UP, DOWN, BACK, ENTER
Display Type	16 x 2 Alpha Numeric Display with Backlight
ENVIRONMENT	
Operating Temperature	0-50 degrees Ambient
Storage Temperature	0-50 degrees Ambient
Max Relative Humidity @25°C (non Condensing)	95%
Degree of Protection	IP20
Dimensions (WXHXD)	535 X 290 X 335 (in mm)
Weight (Approx)	62KG
Noise @ 1meter	60 dB
Cooling	Temp Controlled Fan Cooled
Terminations	PV: MC4 CONNECTOR, Battery: INBUILT, Load: 16 AMP 5 PIN AC SOCKET, Grid: 1.5 mtr 3 Core Cable
Accessories Supplied	User Manual, Warranty card, Hole Fasher
*Specifications are subject to change without prior notice due to constant improvement in design and technology	

RAYAX™

The Rays Of Power

CORPORATE ADDRESS

RAYAX ENERGY PRIVATE LIMITED

13P, Captain Ganpat Ram Yadav Marg, Block D, Indira Colony 2, Sector 52,
Gurugram, Haryana - 122003

FACTORY ADDRESS

Plot No. 379/1, Near DPS School, Village Manesar, Tehsil Manesar,
Distt. Gurugram, Haryana - 122052

Toll Free Number: 1800-5475-600  Info@rayaxenergy.com  www.rayaxenergy.com