



Plot No 251, SY No-126, Deepthi Srinagar Colony,
Madinaguda, Miyapur, Hyderabad, Telagana - 500049

GAT NO:- 309 / 3, Opp to AMG Corporation,
Kuruli Murhe Vasti Road, Kurali, Pune - 410501. Maharashtra.

Tel : +91 95277 44991
Web : www.trexenergy.in
Email : contact@trexenergy.in

Scan to visit our website



TREX ENERGY

WE STORE ELECTRONS



CONTENTS

About Us	03
Global Presence	04
Our Suppliers & Partners	05
Our Product Sectors	06
What We can Provide	07
Our Product Applications	08
Battery Cell Distribution	10
Power Plant System with Battery	12
Power Plant System	13
Energy Storage Solution (ESS)	14
Battery Energy Storage Solution (BESS)	15
Contact Detail	16

ABOUT US

We are Trex Energy Private Limited, where innovation and sustainability converge to power a brighter future. As a leading lithium battery company, we are dedicated to revolutionizing energy storage solutions.

With a commitment to quality, reliability, and environmental stewardship, we strive to exceed expectations and empower our customers with cutting-edge technology that drives progress and sustainability.

OUR VISION

Our vision at Trex Energy Private Limited, is to become a global leader in battery cell supply and manufacturing, driving the future of energy storage and electrification.

With a strategic plan to establish our own state-of-the-art battery cell manufacturing plant by 2026-2027, we are poised to revolutionize the industry and meet the growing demand for sustainable energy solutions.

At the core of our vision is a commitment to innovation, quality, and sustainability. We envision a world where clean and efficient energy is accessible to all, powering everything from electric vehicles to renewable energy grids. By investing in cutting-edge technology and leveraging our expertise in battery cell production, we aim to set new standards for performance, reliability, and environmental responsibility.

GLOBAL PRESENCE



OUR SUPPLIERS



OUR CUSTOMERS



OUR PRODUCT SECTORS

Telecom Solutions

We are committed to powering the future of telecommunications with innovative and reliable energy storage solutions. Partner with us to ensure that your communication networks stay connected, resilient, and future-proofed against energy disruptions.

ESS (Energy Storage Solution)

Our ESS solutions utilize advanced lithium-ion battery technology to efficiently store surplus energy generated from renewable sources or during periods of low demand.

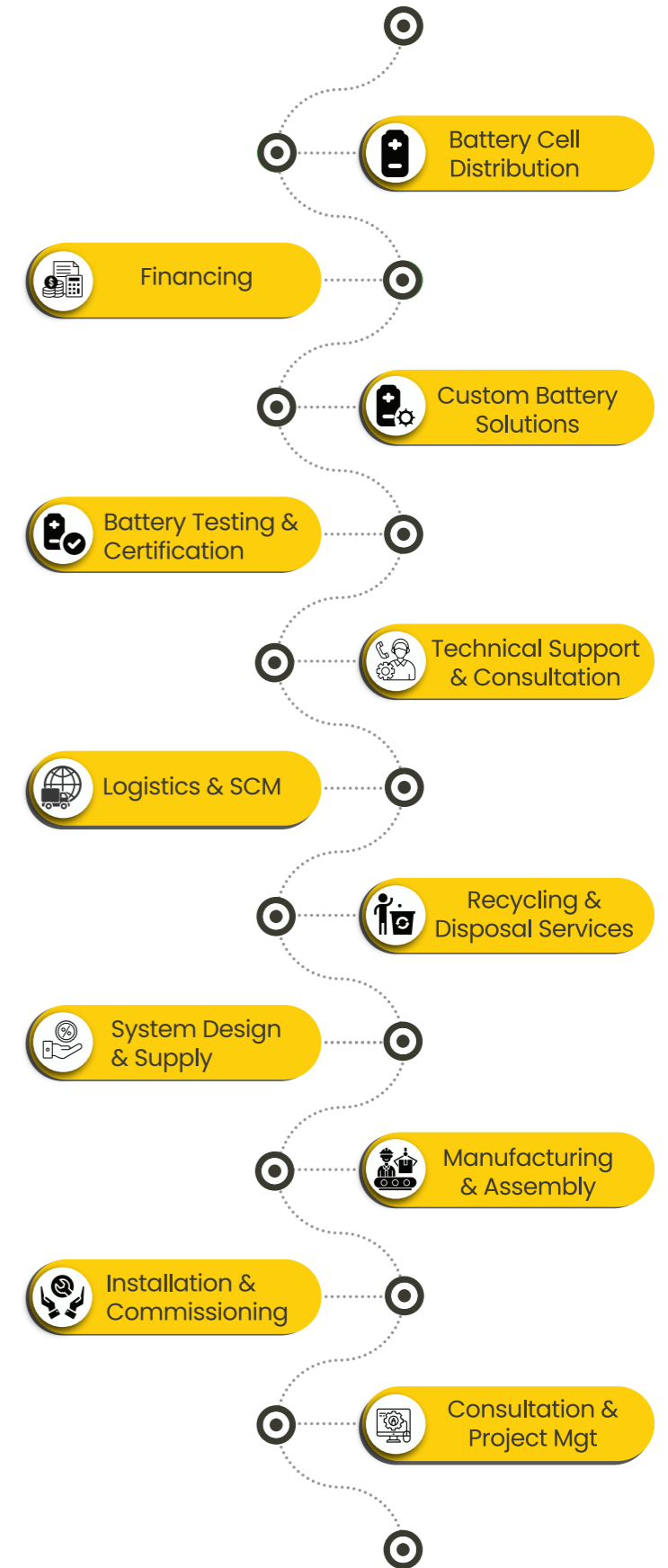
BESS (Battery Energy Storage Solution)

Our BESS solutions leverage lithium-ion battery technology to store excess energy generated from renewable sources or during off-peak hours.

Electric Vehicles

Trex Energy batteries deliver enhanced performance and increased economic value through a cutting edge blend of software and hardware technologies, along with mechanisms for self-maintenance and external upkeep.

WHAT WE CAN PROVIDE





PRODUCT APPLICATIONS

QUALITY MANAGEMENT SYSTEM



Energy storage during the day enables self-sufficiency by supplying power at night, ensuring continuous energy availability.



Photovoltaic power generation significantly reduces reliance on purchased electricity, leading to substantial savings on electricity bills.



Photovoltaic power generation ensures uninterrupted operation of home appliances during power outages.



Harnessing green energy ensures both environmental protection and safe, sustainable electricity, creating a beautiful, eco-friendly home.

Battery Cell Distribution

Model Type	GSP3914895F
Application	ESS
Capacity	50Ah
Charging/Discharging Rate	0.5C/1C
Peak Discharge	3C (For Fue Sec)
Cycle Life	>= 4000@80%
Chemistry	LFP
Size (WxLxH)	39 x 148 x 95
Weight (Kg)	1.10+ = 0.1
Cell Internal Impedance	<= 0.6mΩ
Charging Temperature	0-60° C
Discharging Temperature	-30-55° C
Testing & Certifications	BIS/MSDS/UN38.3



Model Type	GSP34135214F
Application	ESS/EV
Capacity	100Ah
Charging/Discharging Rate	0.5C/1C
Peak Discharge	3C (For Fue Sec)
Cycle Life	>= 4000@80%
Chemistry	LFP
Size (WxLxH)	34 x 135 x 214
Weight (Kg)	2.04+ = 0.05
Cell Internal Impedance	<= 0.7mΩ
Charging Temperature	0-60° C
Discharging Temperature	-30-60° C
Testing & Certifications	BIS/MSDS/UN38.3



Model Type	GSP42173205F
Application	ESS
Capacity	150Ah
Charging/Discharging Rate	0.5C/1C
Peak Discharge	3C (For Fue Sec)
Cycle Life	>= 2500@80%
Chemistry	LFP
Size (WxLxH)	42 x 173 x 205
Weight (Kg)	< =3.28
Cell Internal Impedance	<= 0.7mΩ
Charging Temperature	0-60° C
Discharging Temperature	-30-60° C
Testing & Certifications	BIS/MSDS/UN38.3



Battery Cell Distribution

Model Type	LF230
Application	EV
Capacity	230Ah
Charging/Discharging Rate	1C/1C
Peak Discharge	3C (For Fue Sec)
Cycle Life	>= 4000@80%
Chemistry	LFP
Size (WxLxH)	53.85 x 174 x 207
Weight (Kg)	4.14 + = 0.124
Cell Internal Impedance	0.20 + = 0.05mΩ
Charging Temperature	0-65° C
Discharging Temperature	-30-60° C
Testing & Certifications	BIS/MSDS/UN38.3



Model Type	GSP71173204F
Application	BESS
Capacity	314Ah
Charging/Discharging Rate	0.5C/1C
Peak Discharge	3C (For Fue Sec)
Cycle Life	>= 8000@80%
Chemistry	LFP
Size (WxLxH)	71 x 173 x 204
Weight (Kg)	5.6 + = 0.15
Cell Internal Impedance	0.17 + = 0.05mΩ
Charging Temperature	0-60° C
Discharging Temperature	-30-55° C
Testing & Certifications	BIS/MSDS/UN38.3



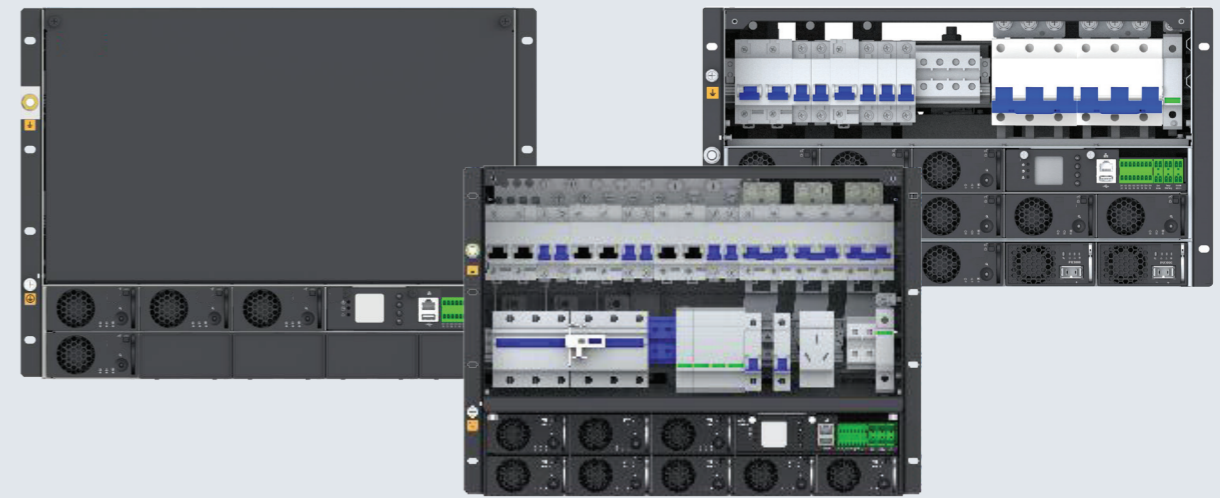
OUR SUPPLIERS



Power Plant System with Battery



Power Plant



TREX TELECOM POWER PLANT RACK SPECIFICATIONS

RACK CAPACITY	16KW	24KW	32KW	36KW
Rack Outer Size	1155 (H) x 585 (W) x 640 (D)	1155 (H) x 585 (W) x 640 (D)	1629 (H) x 590 (W) x 650 (D)	2200 (H) x 700(W) x 700 (D)
Rack Usable Size	990 (H) x 580 (W) x 615 (D)	990 (H) x 580 (W) x 615 (D)	1450 (H) x 585 (W) x 620 (D)	2050 (H) x 650 (W) x 650 (D)
Rack Battery Capacity	200Ah	600Ah	800Ah	800Ah
Ultimate SMPS Capacity	16	16	16	36
Cooling Mechanism	Air Cooling	Air Cooling	Air Cooling	Air Conditioner
Smoke Detector	YES	YES	YES	YES
Busbar & Fuse Provision (Optional)	YES	YES	YES	YES
MCB (Optional)	YES	YES	YES	YES
Heating Mechanism (Optional)	YES	YES	YES	YES
IP Rating (As per the Customer Application)	IP 35 to IP 55	IP 35 to IP 55	IP 35 to IP 55	IP 35 to IP 55
Emergency Light	YES	YES	YES	YES

TREX POWER PLANT KEY SPECIFICATIONS

	8KW	12KW	16KW	24KW	32KW
SMPS Model	TEPL8KW	TEPL12KW	TEPL16KW	TEPL24KW	TEPL2KW
Ultimate Capacity	16KW	16KW	16KW	32KW	16KW
Loaded Capacity	8KW	12KW	16KW	24KW	12KW
Battery DG-Hybrid	YES	YES	YES	YES	YES
Solar DG-Hybrid	YES	YES	YES	YES	YES
Standard size	8U	8U	8U	8U	8U
CSU	602A	602A	602A	602A	602A
Rectifier	ZXEPS R4850F1 (97%/98%)	ZXEPS R4850F1 (97%/98%)	ZXEPS R4850F1 (97%/98%)	ZXEPS R4850F1 (97%/98%)	ZXEPS R4850F1 (97%/98%)
Type of Breaker	ordinary breaker	ordinary breaker	ordinary breaker	ordinary breaker	ordinary breaker

TELECOM BATTERY PACK

- **3U Battery pack 48V100Ah**
- **Size:-** 134x440x480 (HWD)
- **Pack Weight:-** 44kg.
- **Communication:-** SNMP/RS232/RS385/MODBUS
- **Key features:-** IP30, SOC Indications, Reverse polarity, Short circuit, MCB, compatible for 19" Rack, Anti-theft.
- **Optional Feature:-** Display, Bluetooth, Telematics



RECTIFIER

- Super high efficiency, super low sleep-mode power consumption
- High power density, saving space and rental
- Digital design, more stable
- Constant power design, less CAPEX
- Wide range of input voltage to prolong battery life
- Wide temperature tolerance



Energy Storage Solutions (ESS)

Energy Storage Solutions (215KW)
Energy Storage Solutions (373KW)



Battery Energy Storage Solutions (BESS)

Battery Energy Storage Solutions (3.44MWH)
Battery Energy Storage Solutions (5MWH)



ESS (215KW)

ESS (373KW)

Product Type	Magna-C&I-215	Product Type	Magna-UTL-373
Product Category	AC Outdoor Liquid-cooling Battery System	Product Category	DC Outdoor Liquid-cooling Battery System
Rated Energy	280Ah LFP 1P 240S	Rated Energy	372.7kWh@0.5C
Rated Power	100kW	Rated Power	180 kW
Rated Output Voltage	380 Va.c.	Rated Output Voltage	900 – 1500 Vd.c.
Cell Capacity	280 Ah	Cell Capacity	280 Ah
Cell Type	LFP	Cell Type	LFP
Configuration	1P240S	Configuration	1P416S
Discharge Current	178 A	Discharge Current	140 A
Charging Current	178 A	Charging Current	140 A
Charging Temperature	0 ~ 45 °C	Charging Temperature	0 ~ 45° C
Discharging Temperature	-20 ~ 50° C	Discharging Temperature	-20 ~ 50° C
Communication Port	CAN, RS485	Communication Port	CAN, RS485
Cooling Method	Liquid Colling	Cooling Method	Liquid Colling
Protection Level	IP55	Protection Level	IP55
Product Weight	~~ 2550 Kg	Product Weight	~~ 4000 Kg
Dimensions	W1300 x D1310 x H2265 mm	Dimensions	W1300 x D1300 x H2365 mm
Testing & Certifications	IEC62619/ IEC62933/ UN38.3	Testing & Certifications	IEC62619/ IEC62933/IEC6100/ UN38.3/ UL1963/ UL9540A

BESS (3.44MWH)

BESS (5MWH)

Product Type	Max-20HC-3440	Product Type	Max-20hc-5000
Product Category	20HC DC Liquid Cooling Container ESS	Product Category	20HC DC Liquid-Cooling Container ESS
Rated Energy	3.44MWh@0.5C	Rated Energy	5.0MWh@0.5C
Rated Power	180kW*10/1.7MW	Rated Power	<= 417kW*6/1.25MW*2
Rated Output Voltage	900-1500 Vd.c.	Rated Output Voltage	1040-1500 Vd.c.
Cell Capacity	280 Ah	Cell Capacity	314 Ah
Cell Type	LFP	Cell Type	LFP
Configuration	1P3845* (10 or 9 or 8)	Configuration	1P4165*12
Discharge Current	173 A (10 or 9 or 8)	Discharge Current	157 A
Charging Current	173 A (10 or 9 or 8)	Charging Current	193 A
Charging Temperature	0 ~ 45 °C	Charging Temperature	-30 ~ +50 °C
Discharging Temperature	-20 ~ 50° C	Discharging Temperature	-35 ~ +60 °C
Communication Port	CAN, 485, TCP/IP	Communication Port	CAN, RS485, RJ45/ Optical Fiber
Cooling Method	Liquid Colling	Cooling Method	Liquid Colling
Protection Level	IP54	Protection Level	IP55
Product Weight	<36T	Product Weight	<42T
Dimensions	W6058 x D2438x H2896 mm (20HC)	Dimensions	W6058 x D2438x H2896 mm (20HC)
Testing & Certifications	GB/T36276 / IEC62619 / IEC62933 /IEC61000/ UL1973 / UL9540A	Testing & Certifications	GB/T36276 / IEC62619 / IEC62933 / IEC61000/ UL1973/UL9540A