



DUAK
Smart Energy Solution

DUAK ENERGY PVT. LTD.

**Lithium ion Battery &
Solar item Manufacturers**



ABOUT US

DUAK started business from JAIPUR in 2015 with small manufacturing unit for solar product of lithium battery.

In 2017 **DUAK** forwarded a step and registered itself with a brand name "**DUAK**" and started manufacture lithium batteries for Electric Vehicle under **DUAK SOLAR**. In 2022 **DUAK SOLAR** took one more step and introduce itself by **DUAK ENERGY PVT. LTD.**

DUAK have own network in RAJASTHAN, PUNJAB, HARIYANA, MAHARASTRA, TELANGANA, KARNATAKA, CHHATSGARH OR ASSAM...

Now **DUAK** expands its products extends from Solar Lithium Battery, Lithium Inverter, Electric Scooter Battery, E-Rickshaw Battery, Energy Storage Battery, Solar Street Light, Battery Charger many solar products, Hover boards, wheelchairs, car batteries, medical use batteries, laptops and many more segments we're yet to step our foot in, there's something for everybody. Our Lithium solutions are based on NMC, LFP.

Being an MSME registered company having BIS approved products, and ISO 9001:2015, ISO14001:2015 AND OHSAS 18001:2007 certificates, we have the fresh batch of hardworking team who constantly scribble their innovating thoughts and constantly strive to make the user experience better.

Why Choose US? Because WE're The Best

DUAK have in-house cell testing lab with different kind of machine so that we can provide you best quality of battery with original cell. Our Lithium-Ion battery packs with the best quality at a reasonable price to provide you the value for what you are paying

HIGHLIGHTS

- Micro, Small and Medium Enterprises (MSME) registered company.
- ISO 9001:2015, OHSAS 18001:2007 and ISO14001:2015 certified company.
- In-house Quality Control and Testing Facilities. Comply with IEC 62133, IEC-61960, IEC 62281, IS-16046, UN 38.3.
- Equipped with advanced machinery from the, Japan and China for testing and manufacturing.
- Product designing is done by following the strict cell grading process, cell shorting process, insulation paper streaking ensuring the voltage and current protection at the starting level.
- Having the most advance battery management systems with diagnostics
- Our products are BIS approved and the Raw Material is accredited by NABL.
- Strong customer support services.
- We have personal in house lab for testing battery pack capacity and life performance.
- A strong advisory panel with exceptional domain knowledge.
- Reduced internal impedance. Thus, making it safe.
- Strategic tie-ups with global players for manufacturing Lithium.
- Technical collaboration with MNIT Rajasthan University.
- Our Customer Support Services are highly satisfactory.



ENERGY STORAGE BATTERY



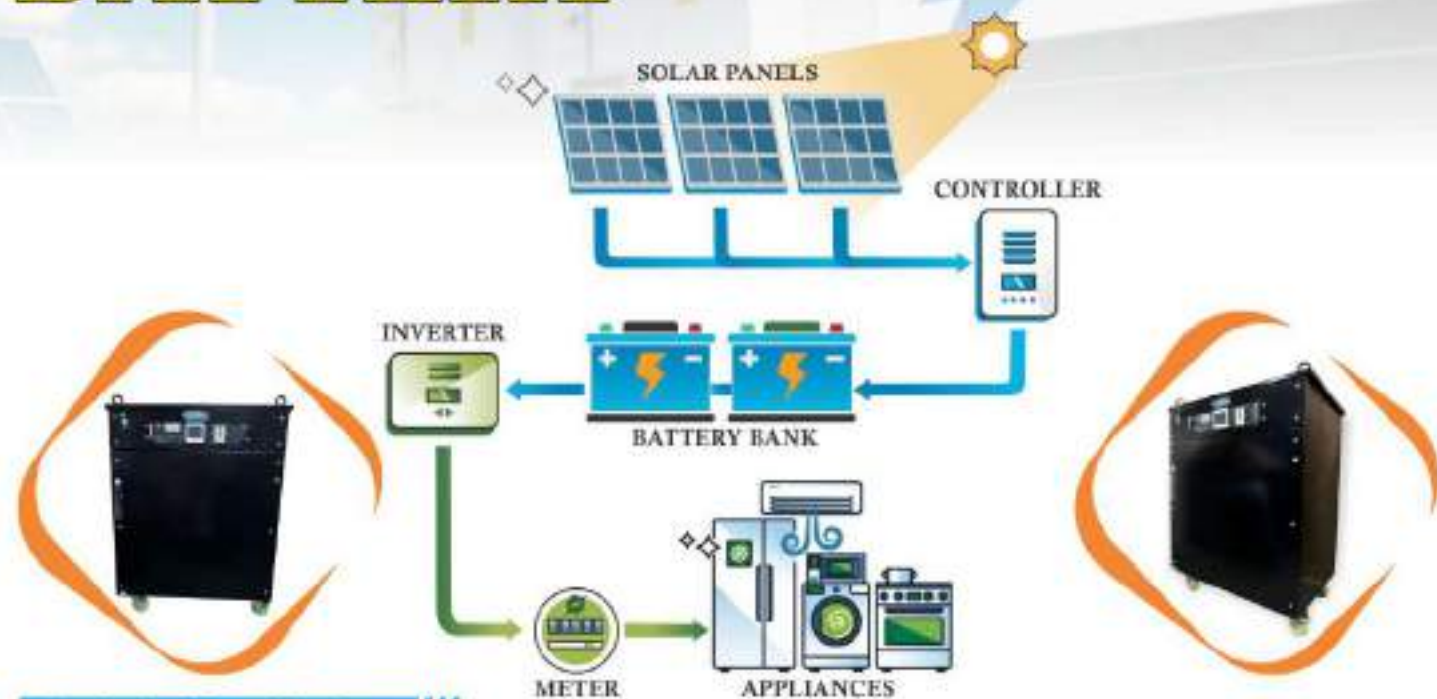
DUAK
Smart Energy Solution



- Energy Security
- No Noise or Air Pollution

- Getting the Most Out of Your Power
- Seamless Connect Between Your Panels

ENERGY STORAGE BATTERY



Technical Specification

DUAK ESS Battery

BATTERY MODEL	DESS48100B50	DESS48200B100	DESS96100B50	DESS96200B100	DESS121100B50	DESS121200B100	DESS240100B100	
Battery Voltage	48	48	96	96	121.6	121.6	240	VOL
Battery Capacity	100	200	100	200	100	200	100	AH
Battery Charge Current MAX	25	50	25	50	25	50	25	AH
Battery Discharge Current MAX	50	100	50	100	50	100	50	AMP/HR
Battery Charging Voltage	55.5	55.5	111	111	140.6	140.6	273.7	VOL
Battery Discharge Voltage	39	39	78	78	98.8	98.8	198.7	VOL
Battery Cut Off Voltage	52.725	52.725	105.45	105.45	133.57	133.57	255	VOL
Battery Low Cut Off Voltage	40.95	40.95	81.9	81.9	103.74	103.74	202	VOL

Energy Storage System

Storage

- Storage device
- Battery Management & Protection (BMS)
- Racking

Power Control System (PCS)

- Bi-Directional Inverter
- Switchgear
- Transformer
- Data Acquisition
- System (DAS)

Energy management System (EMS)

- Charge / Discharge
- Load Management
- Ramp rate control
- Grid Stability

Balance of plant

- Container / Housing
- Wiring
- Climate Control
- Fire Protection

ELECTRIC VEHICLE BATTERY



DUAK
Smart Energy Solution

**WE PROVIDE YOU
THE BEST ENERGY**



High Safety

Low risk of overheating and catching fire.



Low Cost

Production materials are economical.



Long Life Cycle

Continued high performance and capacity throughout extensive life cycle.



Environmentally Sustainable

Non-toxic, recyclable, and easier to source ethically.

Electric Two Wheelers Battery

Lithium Battery Advantages :-

DUAK Technology designs, develops and manufacture high quality battery for electric scooty. Our batteries are designed with latest advancement in battery chemistry, which allows for a longer life span, improved safety and higher energy density. We manufacture wide range of lithium ion and phosphate battery for electric scooty.



DUAK
Smart Energy Solution

Technical Specification

DUAK E-Bike NMC Battery

BATTERY MODEL	DEVN6026B40	DEVN6031B40	DEVN6036B40	DEVN7426B40	DEVN7431B40	DEVN7436B40
Battery Voltage	59.2	59.2	59.2	74	74	74
Battery Capacity	26	31.2	36.4	26	31.2	36.4
Battery Charge Current MAX	10	10	10	10	10	10
Battery Discharge Current MAX	40	40	40	40	40	40
Battery Charging Voltage	67.2	67.2	67.2	84	84	84
Battery Discharge Voltage	51.2	51.2	51.2	67	64	64
Battery Charge Cut Off Voltage	63.84	63.84	63.84	79.8	79.8	79.8
Battery Low Cut Off Voltage	52.224	53.76	53.76	65.28	67.2	67.2



E-RICKSHAW VEHICLE BATTERY



DUAK
Smart Energy Solution



High Safety

Low risk of overheating and catching fire.



Low Cost

Production materials are economical.



Long Life Cycle

Continued high performance and capacity throughout extensive life cycle.



Environmentally Sustainable

Non-toxic, recyclable, and easier to source ethically.

Electric Rickshaw & E-Loader Battery

DUAK Technology designs, develops and manufactures high quality battery for Electric Rickshaw and loader. Our batteries are designed with latest advancement in battery chemistry, which allows for a longer life span, improved safety and higher energy density.



Technical Specification

DUAK E-Rickshaw Battery

BATTERY MODEL	DEVL48100B60	DEVL48100B60	DEVL48100B60
Battery Voltage	48	51.2	60.8
Battery Capacity	105	105	105
Battery Charge Current MAX	25.48	25.48	25.48
Battery Discharge Current MAX	78.4	78.4	78.4
Battery Charging Voltage	55.5	59.2	70.3
Battery Discharge Voltage	39	41.6	49.4
Battery Charge Cut Off Voltage	52.725	56.24	66.785
Battery Low Cut Off Voltage	40.95	43.68	51.87



AC STREET LIGHT



DUAK
Smart Energy Solution



SYSTEM WATTAGE (W)




24w	36w	50w	100w	150w	180w	200w	250w
-----	-----	-----	------	------	------	------	------

PRODUCT TECHNICAL SPECIFICATIONS

LED MAKE		LED Lumen Efficiency	> 140 Lm/w
Power Factor	> 0.95	LED Life Span	> 50000 Hrs @70
Operating Voltage	90vac To 300 Vac	CCT	2700 K To 6500 K
Input Voltage	230vac (+/- 10%)	CRI	> 80
Operating Frequency	50 Hz	THD	< 10%
Working Temperature	-5°C To + 50°C	Efficiency	> 90
Working Humidity	10% - 90% Rh	IP	Ip65 Protection
Inbuilt Surge Protection	4kv - 6kv	Driver	Waterproof Ip65
External Surge Protection	10kv Optional	Enclosure	Aluminium Die Cast

- ♦ Over Voltage & Under Voltage Protection
- ♦ Short Circuit & Over Temperature Protection
- ♦ No Harmful UV & IR Radiation

Technical Specifications

ORIGINAL PICTURE	LIGHT	LUMENS	SOLAR PANEL MPP VOLT	SOLAR PANEL	12.8V LP BATTERY AND CAPACITY	LED DRIVER EFFICIENCY	SOLAR CHARGING TIME	LIGHTING TIME	LIGHT MOUNTING HEIGHT (above ground level)	COLOUR TEMPERA TURE	HUMIDITY RANG	WATER PROOF	WORKING TEMPERATURE	LED WORKING LIFE	WARRANTY	Light Price with Battery Panel and pole	Light Price with Battery and panel	Light Price with Battery
	10W	1500	19 volt	40W	12 AH	> 92 %	6 hours	2 nights	5 meter	6000K – 6500K	0 to 95%	IP65/IP66	-25 C to 65 C	More than 50,000 hours	2 years system	2880	3980	6980
	12W	1500	19 volt	40W	12 AH	> 92 %	6 hours	2 nights	5 meter	6000K – 6500K	0 to 95%	IP65/IP66	-25 C to 65 C	More than 50,000 hours	2 years system	3480	4580	7580
	15W	2000	19 volt	40W	18 AH	> 92 %	6 hours	2 nights	5 meter	6000K – 6500K	0 to 95%	IP65/IP66	-25 C to 65 C	More than 50,000 hours	2 years system	4380	5380	8380
	18W	2300	19 volt	50W	18 AH	> 92 %	6 hours	2 night	6 meter	6000K – 6500K	0 to 95%	IP65/IP66	-25 C to 65 C	More than 50,000 hours	2 years system	4380	5680	8680
	25W	3200	19 volt	60W	24 AH	> 92 %	6 hours	2 nights	6 meter	6000K – 6500K	0 to 95%	IP65/IP66	-25 C to 65 C	More than 50,000 hours	2 years system	5380	6980	9980
	30W	3800	19 volt	75W	30 AH	> 92 %	6 hours	2 nights	6 meter	6000K – 6500K	0 to 95%	IP65/IP66	-25 C to 65 C	More than 50,000 hours	2 years system	6080	8580	11580
																		

ADVANTAGES

- Solar street lights are independent of the utility grid. Hence the operation costs are minimized.
- Solar street lights require much less maintenance compared to conventional street lights.
- Since external wires are eliminated, risk of accidents are minimized.
- Electricity produced from solar panels is non-pollutive.
- Separate parts of a solar panel system can easily be transported.
- Energy costs can be saved.

ELECTRIC VEHICLE BATTERY CHARGER



DUAK
Smart Energy Solution



- ▶ बैटरी को करे जल्दी चार्ज
- ▶ बिजली की खपत करे कम
- ▶ बैटरी ली लाईफ बढ़ाये

LITHIUM INVERTER

Lithium Inverter



- ▶ SMALL IN SIZE
- ▶ WALL MOUNTABLE
- ▶ ZERO MAINTENANCE
- ▶ ADVANCED DSP SINEWAVE
- ▶ BATTERY LIFE 10-12 YEARS
- ▶ DUAK LITHIUM POWER BACKUP



ELECTRIC VEHICLE BATTERY CHARGER



DUAK
Smart Energy Solution



- ▶ बैटरी को करे जल्दी चार्ज
- ▶ बिजली की खपत करे कम
- ▶ बैटरी ली लाईफ बढ़ाये

HOME LIGHT SYSTEM



DUAK

Smart Energy Solution

Home Light
System Battery



Solar
Panel
12 watt

Lead Acid
Battery
8000 MAH

7 watt
3 LED Tubs,
1 Fan

Mobile
Charging
Port 1A

6-8 Hrs
Backup on
3 LED

2 Year
Warranty

How Solar Home Lighting System Works



DUAK
Smart Energy Solution



Description : The solar home lighting system consists of two 7w 3LED tube lights, 1 DC fan and a mobile charging point. The system can be charged using solar and the AC supply as well.

Compact Lighting Solution for a Typical Village Home.	
Solar Panel	15 W
7W LED Tube	3 nos
12V Fan	Yes
Mobile Charging Port	Yes
Battery	LI-Ion/Lead Acid, 8000AH
Dimensions (Cm3)	18 x 25 x 10.8
Weight (In Kg)	5.6 Kg

LITHIUM INVERTER



DUAK
Smart Energy Solution

Lithium Inverter



- ▶ SMALL IN SIZE
- ▶ WALL MOUNTABLE
- ▶ ZERO MAINTENANCE
- ▶ ADVANCED DSP SINEWAVE
- ▶ BATTERY LIFE 10-12 YEARS
- ▶ DUAK LITHIUM POWER BACKUP

SOLAR LITHIUM BATTERY



DUAK
Smart Energy Solution



High temperatures
storage.



Minimise charge
time to 100%



Fast Charge
unless necessary.



DUAK
Smart Energy Solution



Solar Lithium Battery

DUAK electronic Lithium battery's features are small in size, light in weight, high energy capacity, high safe performance and flexible in design and are widely used for electronic products like, outdoor lighting batteries, electronic toys batteries, portable mini fan and POS device batteries, and so-on which moves lithium-ion battery industry forwarder in Growing India. We offer affordable battery packs for portable devices that are designed with perfection to deliver true capacities. These Lithium Battery Packs provide backup for both DC & AC portable devices.

Lighting Batteries features are overload protection, over temperature Protection, output short circuit protection, input under-voltage protection, high specific energy, high safe performance and flexible in design and are widely used for solar streetlight, garden lighting, torch, online UPS, solar home lighting system, and so-on which moves lithium-ion battery industry forwarder in Growing India

Technical Specification

SOLAR LFP BATTERY

BATTERY MODEL	DSB12V6A	DSB12V12A	DSB12V18A	DSB12V24A	DSB12V30A	DSB12V36A	DSB12V42A	DSB12V48A	DSB12V54A	DSB12V60A
Battery Voltage	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
Battery Capacity	6	12	18	24	30	36	42	48	54	60
Battery Charge Current MAX	1.5	3	4.5	6	7.5	9	10.5	12	13.5	15
Battery Discharge Current MAX	3	6	9	12	15	18	21	24	27	30
Battery Charging Voltage	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
Battery Discharge Voltage	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
Battery Charge Cut Off Voltage	14.06	14.06	14.06	14.06	14.06	14.06	14.06	14.06	14.06	14.06
Battery Low Cut Off Voltage	10.92	10.92	10.92	10.92	10.92	10.92	10.92	10.92	10.92	10.92

SOLAR NMC BATTERY

BATTERY MODEL	DSB11V8A	DSB11V10A	DSB11V13A	DSB11V16A	DSB11V18A	DSB11V21A	DSB11V23A	DSB11V26A	DSB11V29A	DSB11V31A
Battery Voltage	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
Battery Capacity	7.8	10.4	13	15.6	18.2	20.8	23.4	26	28.6	31.2
Battery Charge Current MAX	3.9	5.2	6.5	7.8	9.1	10.4	11.7	13	14.3	15.6
Battery Discharge Current MAX	3.9	5.2	6.5	7.8	9.1	10.4	11.7	13	14.3	15.6
Battery Charging Voltage	12.75	12.75	12.75	12.75	12.75	12.75	12.75	12.75	12.75	12.75
Battery Discharge Voltage	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
Battery Cut Off Voltage	12.495	12.495	12.495	12.495	12.495	12.495	12.495	12.495	12.495	12.495
Battery Low Cut Off Voltage	9.792	10.08	10.08	10.08	10.08	10.08	10.08	10.08	10.08	10.08

Product Summary



DUAK
Smart Energy Solution



Energy Storage
Battery



Inverter Battery



E-Rickshaw
Battery



Electric Scooter
Battery



Electric Cycle
Battery



Solar Lithium
Battery



Solar Street
Light



AC LED
BULB



Home Light
System



Lithium
Inverter



Battery
Charger



AC FLOOD
LIGHT



AC STREET
LIGHT



DUAK ENERGY PVT. LTD.

— | Duak is The Name of Trust | —

☎ +91 76110-70110 🌐 www.duak.in / Info@duak.in

📍 A-5 Udyog Vihar, Road No. 17, VKI, Jaipur