

# Highly Efficient and Durable

# LITHIUM-ION

## BATTERY

Rating 12.8V/100AH - 360V/100AH



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## UTL in 2023-2024

4

Manufacturing Units

28

Years Old Brand

60+

Strong R&D Team

3500+

Service location in India

3000+

Associated Man Power

500+

Distributor in INDIA

3600+

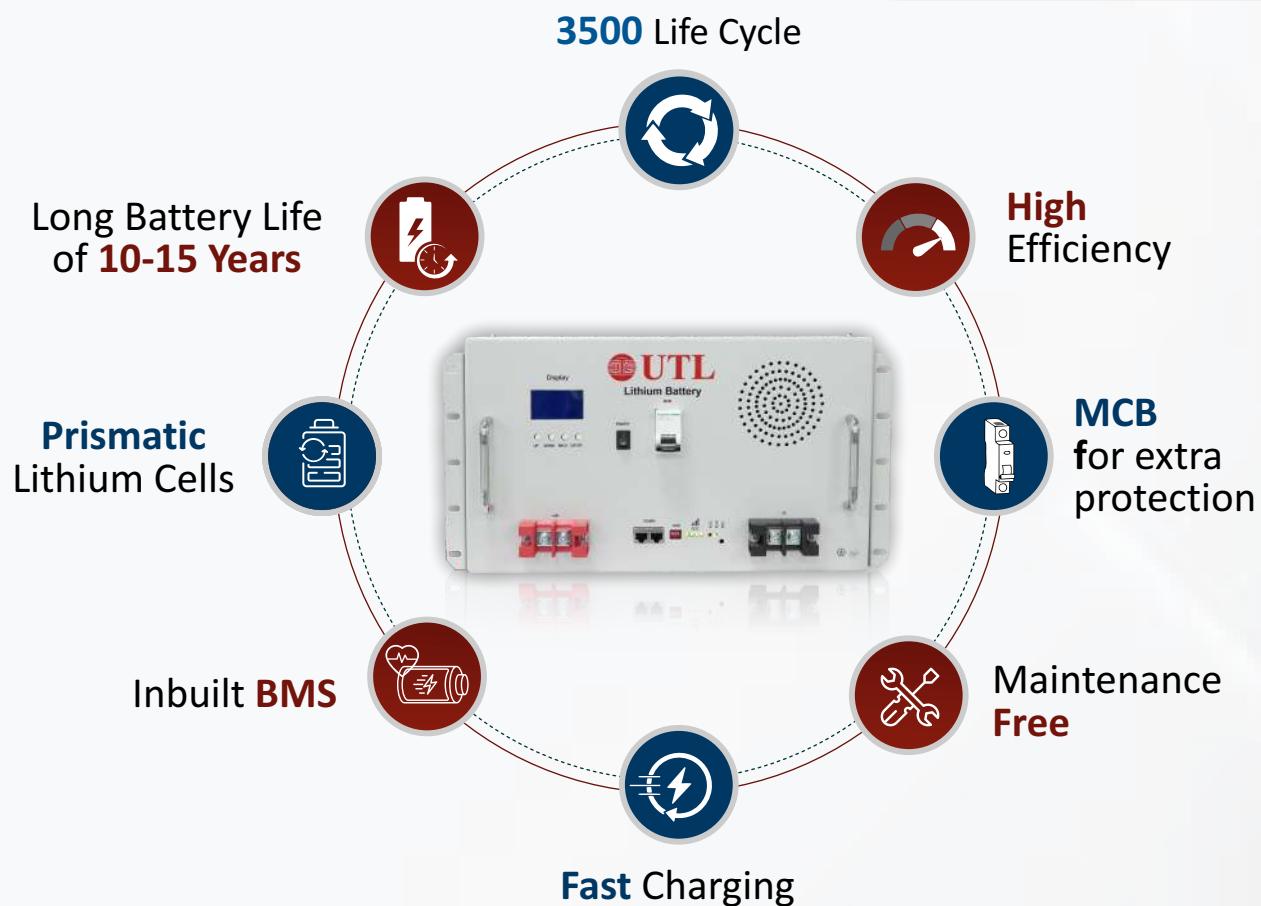
Dealers in INDIA

5000000+

Satisfied UTL Consumers

9.2 Bn

UTL Turnover



## COMPARISON BETWEEN LITHIUM AND TUBULAR BATTERIES

Feature	Lithium battery Bank	Tubular lead acid battery
<b>Lifespan</b>	10 to 15 years (As per 3500 life cycle)	3 to 5 years (As per 1500 life cycle)
<b>Charging Time</b>	4 to 5 hours	10-12 hours
<b>High Voltage, Low Voltage, Overload, Short Circuit Protection</b>	Yes	No
<b>Maintenance</b>	No	High
<b>Equalization of Battery Cells</b>	Yes	No
<b>Capacity</b>	C1	C10/C20
<b>BMS</b>	Yes	No
<b>Size and Weight</b>	70% Less Weight And Size	6.5 Kgs of one 150AH Tubular Battery
<b>MCB for Protection</b>	Yes	No
<b>Indication LED</b>	Yes	No

Specifications	Parameter	Remarks/We recommended
Nominal voltage	12.8 V	
Battery configuration	4S 1P -100Ah	
BMS	Standard Normal BMS	
Cell type & chemistry	Prismatic / Lifepo4(LFP)	
Rated capacity	100Ah	
Nominal energy (.25C @ 25°C)	1280Wh	
Usage application	Energy storage / inverter application	
Battery operating voltage range	10.8 V ~ 14.6 V	11.2 V ~ 14.4 V
continuous charging current	35 Amp	
Maximal charging current	40 Amp	0.25C @ AH (25Amp)
Continuous Discharging current	60 Amp	0.25C @ AH (25Amp)
Max peak discharge current	80 Amp	150 mS
Max Charging Time	2Hr @ 50Amp	4 Hr @ 25 Amp
Max Discharging Time	2Hr @ 50Amp	4 Hr @ 25 Amp
Operating temperature range for charging	(0°C ~ 45°C)	27°C
Operating temperature range for Discharge	(-20°C ~ 60°C)	27°C
Recommended Operating range of SOC	10 % ~ 90 %	
Communication interface	NA	
SOC required for long period storage & transportation	40 % of Rated capacity (AH)	
Dimension MM(L*W*H)	310 * 415 *165	It can be change as per company standard
Weight with metal Cabinet	Approx 15 Kg Gross	
Inbuilt Display	Optional	
MCB	yes	
life cycle	After 3500 cycle @ 80% capacity on 0.5C discharge with 27 °C temp.	
Battery efficiency	≥ 98 % @ 27 °C	
Maximum module in parallel	NA	
Inbuilt Automatic Protection System	Yes	
Automatic low voltage protection	Yes	
Automatic over voltage protection	Yes	
Automatic over charge/discharge current protection	Yes	
Automatic over charge/discharge temp protection	Yes	

Specifications	Parameter	Remarks/We recommended
Nominal voltage	25.6 V	
Battery configuration	8S 1P -100Ah	
BMS	Standard Normal BMS	
Cell type & chemistry	Prismatic / Lifepo4(LFP)	
Rated capacity	100Ah	
Nominal energy (.25C @ 25°C)	2560 Wh	
Usage application	Energy storage / inverter application	
Battery operating voltage range	21.5 V ~ 29 V	22.4 V ~ 28.5 V
continuous charging current	35 Amp	
Maximal charging current	40 Amp	0.25C @ AH (25Amp)
Continuous Discharging current	80 Amp	0.25C @ AH (25Amp)
Max peak discharge current	100 Amp	150 mS
Max Charging Time	2Hr @ 50Amp	4 Hr @ 25 Amp
Max Discharging Time	2Hr @ 50Amp	4 Hr @ 25 Amp
Operating temperature range for charging	(0°C ~ 45°C)	27°C
Operating temperature range for Discharge	(-20°C ~ 60°C)	27°C
Recommended Operating range of SOC	10 % ~ 90 %	
Communication interface	NA	
SOC required for long period storage & transportation	40 % of Rated capacity (AH)	
Dimension MM(L*W*H)	438 * 242 *322	It can be change as per company standard
Weight with metal Cabinet	Approx 38 Kg Gross	
Inbuilt Display	Optional	
MCB	yes	
life cycle	After 3500 cycle @ 80% capacity on 0.5C discharge with 27 °C temp.	
Battery efficiency	≥ 98 % @ 27 °C	
Maximum module in parallel	NA	
Inbuilt Automatic Protection System	Yes	
Automatic low voltage protection	Yes	
Automatic over voltage protection	Yes	
Automatic over charge/discharge current protection	Yes	
Automatic over charge/discharge temp protection	Yes	

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Specifications	Parameter	Remarks/We recommended
Nominal voltage	48 V	
Battery configuration	15S 1P -100Ah	
BMS	Standard Normal BMS	
Cell type & chemistry	Prismatic / Lifepo4(LFP)	
Rated capacity	100Ah	
Nominal energy (.25C @ 25°C)	4800 Wh	
Usage application	Energy storage / inverter application	
Battery operating voltage range	41.8 V ~ 54 V	42 V ~ 53.7 V
continuous charging current	35 Amp	
Maximal charging current	40 Amp	0.25C @ AH (25Amp)
Continuous Discharging current	80 Amp	0.25C @ AH (25Amp)
Max peak discharge current	100 Amp	150 mS
Max Charging Time	2Hr @ 50Amp	4 Hr @ 25 Amp
Max Discharging Time	2Hr @ 50Amp	4 Hr @ 25 Amp
Operating temperature range for charging	(0°C ~ 45°C)	27°C
Operating temperature range for Discharge	(-20°C ~ 60°C)	27°C
Recommended Operating range of SOC	10 % ~ 90 %	
Communication interface	NA	
SOC required for long period storage & transportation	40 % of Rated capacity (AH)	
Dimension MM(L*W*H)	505 * 315 *320	It can be change as per company standard
Weight with metal Cabinet	Approx 52 Kg Gross	
Inbuilt Display	NA	
MCB	yes	
life cycle	After 3500 cycle @ 80% capacity on 0.5C discharge with 27 °C temp.	
Battery efficiency	≥ 98 % @ 27 °C	
Maximum module in parallel	NA	
Inbuilt Automatic Protection System	Yes	
Automatic low voltage protection	Yes	
Automatic over voltage protection	Yes	
Automatic over charge/discharge current protection	Yes	
Automatic over charge/discharge temp protection	Yes	

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<b>Specifications</b>	<b>Parameter</b>	<b>Remarks/We recommended</b>
Nominal voltage	48 V	
Battery configuration	15S 1P -100Ah	
BMS	Smart BMS technology with Pre charge circuit & Display	
Cell type & chemistry	Prismatic / Lifepo4(LFP)	
Rated capacity	100Ah	
Nominal energy (.25C @ 25°C)	4800 Wh	
Usage application	Energy storage / inverter /Telecom	
Battery operating voltage range	41.8 V ~ 54 V	42 V ~ 53.7 V
continuous charging current	35 Amp	Fast charging/ discharging mode Also Available on demand
Maximal charging current	50 Amp	0.25C @ AH (25Amp)
Continuous Discharging current	100 Amp	0.25C @ AH (25Amp)
Max peak discharge current	110 Amp	150 mS
Max Charging Time	2Hr @ 50Amp	4 Hr @ 25 Amp
Max Discharging Time	2Hr @ 50Amp	4 Hr @ 25 Amp
Operating temperature range for charging	(0°C ~ 45°C)	27°C
Operating temperature range for Discharge	(-20°C ~ 60°C)	27°C
Recommended Operating range of SOC	10 % ~ 90 %	
Communication interface	RS 485 with Cascade technology	
SOC required for long period storage & transportation	40 % of Rated capacity (AH)	
Dimension MM(L*W*H)	480 * 465 *217	It can be change as per company standard
Weight with metal Cabinet	52 Kg Gross	
Inbuilt Display	Yes	
MCB	yes	
life cycle	After 3500 cycle @ 80% capacity on 0.5C discharge with 27 °C temp.	
Battery efficiency	≥ 98 % @ 27 °C	
Maximum module in parallel	16 No & NO CBMS required	
Inbuilt Automatic Protection System	Yes, with LED indicator or Buzzer	
Automatic low voltage protection	Yes	
Automatic over voltage protection	Yes	
Automatic over charge/discharge current protection	Yes	
Automatic over charge/discharge temp protection	Yes	

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<b>Specifications</b>	<b>Parameter</b>	<b>Remarks/We recommended</b>
Nominal voltage	96 V	
Battery configuration	30S 1P -100Ah	
BMS	Standard Normal BMS	
Cell type & chemistry	Prismatic / Lifepo4(LFP)	
Rated capacity	100Ah	
Nominal energy (.25C @ 25°C)	9600 wh	
Usage application	Energy storage / inverter	
Battery operating voltage range	84V ~ 108V	84V ~ 106.5V
continuous charging current	30 Amp	
Maximal charging current	40 Amp	0.25C @ AH (25Amp)
Continuous Discharging current	80 Amp	0.25C @ AH (25Amp)
Max peak discharge current	100 Amp	150 mS
Max Charging Time	2Hr @ 50Amp	4 Hr @ 25 Amp
Max Discharging Time	2Hr @ 50Amp	4 Hr @ 25 Amp
Operating temperature range for charging	(0°C ~ 45°C)	27°C
Operating temperature range for Discharge	(-20°C ~ 60°C)	27°C
Recommended Operating range of SOC	10 % ~ 90 %	
Communication interface	NA	
SOC required for long period storage & transportation	40 % of Rated capacity (AH)	
Dimension MM(L*W*H)	770 * 360 *324	It can be change as per company standard
Weight with metal Cabinet	Approx 120 Kg Gross	
Inbuilt Display	NA	
MCB	yes	
life cycle	After 3500 cycle @ 80% capacity on 0.5C discharge with 27 °C temp.	
Battery efficiency	≥ 98 % @ 27 °C	
Maximum module in parallel	NA	
Inbuilt Automatic Protection System	Yes	
Automatic low voltage protection	Yes	
Automatic over voltage protection	Yes	
Automatic over charge/discharge current protection	Yes	
Automatic over charge/discharge temp protection	Yes	

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<b>Specifications</b>	<b>Parameter</b>	<b>Remarks/We recommended</b>
Nominal voltage	121.6 V	
Battery configuration	38S 1P -100Ah	
BMS	Standard BMS	
Cell type & chemistry	Prismatic / Lifepo4(LFP)	
Rated capacity	100Ah	
Nominal energy (.25C @ 25°C)	12000 wh	
Usage application	Energy storage / inverter	
Battery operating voltage range	106.4 V ~ 138 V ± 0.5mv	106.5 V ~ 135 V ± 0.5mv
continuous charging current	30 Amp	
Maximal charging current	40 Amp	0.25C @ AH (25Amp)
Continuous Discharging current	80 Amp	0.25C @ AH (25Amp)
Max peak discharge current	100 Amp	150 mS
Max Charging Time	2Hr @ 50Amp	4 Hr @ 25 Amp
Max Discharging Time	2Hr @ 50Amp	4 Hr @ 25 Amp
Operating temperature range for charging	(0°C ~ 45°C)	27°C
Operating temperature range for Discharge	(-20°C ~ 60°C)	27°C
Recommended Operating range of SOC	10 % ~ 90 %	
Communication interface	NA	
SOC required for long period storage & transportation	40 % of Rated capacity (AH)	
Dimension MM(L*W*H)	800 * 400 *800	It can be change as per company standard
Weight with metal Cabinet	Approx 170 Kg Gross with Cabinet & Rack	
Inbuilt Display	NA	
MCB	yes	
life cycle	After 3500 cycle @ 80% capacity on 0.5C discharge with 27 °C temp.	
Battery efficiency	≥ 98 % @ 27 °C	
Maximum module in parallel	NA	
Inbuilt Automatic Protection System	Yes	
Automatic low voltage protection	Yes	
Automatic over voltage protection	Yes	
Automatic over charge/discharge current protection	Yes	
Automatic over charge/discharge temp protection	Yes	

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<b>Specifications</b>	<b>Parameter</b>	<b>Remarks/We recommended</b>
Nominal voltage	179.2 V	
Battery configuration	56S 1P -100Ah	
BMS	RBMS(Master slave)	
Cell type & chemistry	Prismatic / Lifepo4(LFP)	
Rated capacity	100Ah	
Nominal energy (.25C @ 25°C)	17920 wh	
Usage application	Energy storage / inverter application	
Battery operating voltage range	156.4 V ~ 201.6 V	159.6 V ~ 200.4 V
continuous charging current	30 Amp	
Maximal charging current	40 Amp	0.25C @ AH (25Amp)
Continuous Discharging current	80 Amp	0.25C @ AH (25Amp)
Max peak discharge current	100 Amp	150 mS
Max Charging Time	2Hr @ 50Amp	4 Hr @ 25 Amp
Max Discharging Time	2Hr @ 50Amp	4 Hr @ 25 Amp
Operating temperature range for charging	(0°C ~ 45°C)	27°C
Operating temperature range for Discharge	(-20°C ~ 60°C)	27°C
Recommended Operating range of SOC	10 % ~ 90 %	
Communication interface	Yes	
SOC required for long period storage & transportation	40 % of Rated capacity (AH)	
Dimension MM(L*W*H)	Depend upon design (L*W*H)	It can be change as per company standard
Weight with metal Cabinet	Depend upon design	
Inbuilt Display	Yes	
MCB	yes	
life cycle	After 3500 cycle @ 80% capacity on 0.5C discharge with 27 °C temp.	
Battery efficiency	≥ 98 % @ 27 °C	
Maximum module in parallel	Yes	
Inbuilt Automatic Protection System	Yes	
Automatic low voltage protection	Yes	
Automatic over voltage protection	Yes	
Automatic over charge/discharge current protection	Yes	
Automatic over charge/discharge temp protection	Yes	

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Specifications	Parameter	Remarks/We recommended
Nominal voltage	240 V	
Battery configuration	75 S 1P -100Ah	
BMS	RBMS(Master slave)	
Cell type & chemistry	Prismatic / Lifepo4(LFP)	
Rated capacity	100Ah	
Nominal energy (.25C @ 25°C)	24000 wh	
Usage application	Energy storage / inverter application	
Battery operating voltage range	210 V ~ 270 V	213V ~ 266.5V
continuous charging current	30 Amp	
Maximal charging current	40 Amp	0.25C @ AH (25Amp)
Continuous Discharging current	80 Amp	0.25C @ AH (25Amp)
Max peak discharge current	100 Amp	150 mS
Max Charging Time	2Hr @ 50Amp	4 Hr @ 25 Amp
Max Discharging Time	2Hr @ 50Amp	4 Hr @ 25 Amp
Operating temperature range for charging	(0°C ~ 45°C)	27°C
Operating temperature range for Discharge	(-20°C ~ 60°C)	27°C
Recommended Operating range of SOC	10 % ~ 90 %	
Communication interface	yes	
SOC required for long period storage & transportation	40 % of Rated capacity (AH)	
Dimension MM(L*W*H)	Depend upon design (L*W*H)	It can be change as per company standard
Weight with metal Cabinet	Depend upon design	
Inbuilt Display	yes	
MCB	yes	
life cycle	After 3500 cycle @ 80% capacity on 0.5C discharge with 27 °C temp.	
Battery efficiency	≥ 98 % @ 27 °C	
Maximum module in parallel	Yes	
Inbuilt Automatic Protection System	Yes	
Automatic low voltage protection	Yes	
Automatic over voltage protection	Yes	
Automatic over charge/discharge current protection	Yes	
Automatic over charge/discharge temp protection	Yes	

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Specifications	Parameter	Remarks/We recommended
Nominal voltage	364.8V	
Battery configuration	114 S 1P-100Ah	
BMS	RBMS(Master slave)	
Cell type & chemistry	Prismatic / Lifepo4(LFP)	
Rated capacity	100Ah	
Nominal energy (.25C @ 25°C)	36480Wh	
Usage application	Energy storage / inverter application	
Battery operating voltage range	319.2V~ 410.4V	321.5V ~ 408.1V
continuous charging current	30 Amp	
Maximal charging current	40 Amp	0.25C @ AH (25Amp)
Continuous Discharging current	80 Amp	0.25C @ AH (25Amp)
Max peak discharge current	100 Amp	150 mS
Max Charging Time	2Hr @ 50Amp	4 Hr @ 25 Amp
Max Discharging Time	2Hr @ 50Amp	4 Hr @ 25 Amp
Operating temperature range for charging	(0°C ~ 45°C)	27°C
Operating temperature range for Discharge	(-20°C ~ 60°C)	27°C
Recommended Operating range of SOC	10 % ~ 90 %	
Communication interface	Yes	
SOC required for long period storage & transportation	40 % of Rated capacity (AH)	
Dimension MM(L*W*H)	Depend upon design (L*W*H)	It can be change as per company standard
Weight with metal Cabinet	Depend upon design	
Inbuilt Display	Yes	
MCB	Yes	
life cycle	After 3500 cycle @ 80% capacity on 0.5C discharge with 27 °C temp.	
Battery efficiency	≥ 98 % @ 27 °C	
Maximum module in parallel	Yes	
Inbuilt Automatic Protection System	Yes	
Automatic low voltage protection	Yes	
Automatic over voltage protection	Yes	
Automatic over charge/discharge current protection	Yes	
Automatic over charge/discharge temp protection	Yes	

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<b>Specifications</b>	<b>Parameter</b>	<b>Remarks/We recommended</b>
Nominal voltage	51.2V	
Battery configuration	16 S 1P-100Ah	
BMS	Smart BMS Technology with AIS Compliance 156	
Cell type & chemistry	Prismatic / Lifepo4(LFP)	
Rated capacity	100Ah	
Nominal energy (.25C @ 25°C)	5120Wh	
Usage application	E-Rickshaw   Loader   3 Wheeler	
Battery operating voltage range	43.2V~ 58.4V	44.8V~ 57.2V
continuous charging current	35 Amp	
Maximal charging current	45 Amp	
Continuous Discharging current	60 Amp	
Max peak discharge current	100 Amp	150 mS
Max Charging Time	4 Hr @ 25 Amp	
Max Discharging Time	4 Hr @ 25 Amp	
Operating temperature range for charging	(0°C ~ 45°C)	27°C
Operating temperature range for Discharge	(-20°C ~ 60°C)	27°C
Recommended Operating range of SOC	10 % ~ 90 %	
Communication interface	CAN	
SOC required for long period storage & transportation	40 % of Rated capacity (AH) for 1 Month	
Dimension MM(L*W*H)	430 * 370 * 300	It can be change as per company standard
Weight with metal Cabinet	56 Kg Gross	
Inbuilt Display / Bluetooth	No / Yes	
MCB / Fuse	No / Yes	
life cycle	After 3500 cycle @ 80% capacity on 0.5C discharge with 27 °C temp.	
Battery efficiency	≥ 94 % @ 27 °C	
Inbuilt Automatic Protection System	Yes, with LED indicator or Buzzer	
Automatic low voltage protection	Yes	
Automatic over voltage protection	Yes	
Automatic over charge/discharge current protection	Yes	
Automatic over charge/discharge temp protection	Yes	

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