



Lithium Battery

Arenq Series



**EV
Battery**



**E-Rickshaw/E-Cart
Battery**

The ARENQ Series from Sunlit Power features advanced Lithium Iron Phosphate (LiFePO_4) battery technology, engineered specifically for E-Carts and E-Autorickshaws. These batteries offer superior safety, longer cycle life, faster charging, and high thermal stability—making them an ideal choice for reliable and efficient electric mobility.



Impact- resistant & waterproof
Casing -IP67 or higher
recommended.



Vibration
Resistance



High Discharge
capability



Light
Weight

The ARENQ E-Autorickshaws and E-Cart series range also includes system from 48V to 72V. Please Contact us for more information.





General Characteristics

MODEL	ARENQLEP 48-100	ARENQLFP 51.2-86	ARENQLEP 51.2-100	ARENQLEP 60.8-100	ARENQLEP 60.8-150
Power (W)	4800	4403.2	5120	6080	9120
Nominal Voltage(V)	48	51.2		60.8	
Capacity (AH)	100	86	100	100	150
No of Cell in Series	15	16		19	
No of Cell in Parallel	1	1	1	1	1
Total No of Cell	15	16		19	
Cell Type	Prismatic				
Chemistry	LiFePO ₄				
Communication	RS485, can bluetooth optional				

Electrical Characteristics

Maximum Cut-Off Voltage (V)	54.75	58.4		69.35	
Minimum Cut-Off Voltage (V)	42	44.8		53.2	
Charging Voltage(V)	54.75	58.4		69.35	
Charging Current Range(A)	50	43	50	50	75
Discharging Current Range (A)	100	86	100	100	150
Cell Discharging Protection Level (V)	2.8				
Cell Charging Protection Level (V)	3.65				
Balancing Current (mA)	80-120 mA				
Cycle Life	6000+				
DOD Level	80%				

Temperature

Working Temperature (°C)	-20 C to +60 C				
Storage Temperature (°C)	23 C - 27 C (30% SOC)				
Dimension(mm)	Customised				
Weight (Kg) Approx.	55	55	60	65	75
Power Connector	As per Requirement				
Cooling	Nature				