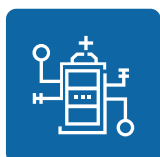




Lithium Battery

Arenq Series



Substation Series



Substation Batteries

ARENQ a trusted brand by Sunlit Power Pvt. Ltd., offers advanced Lithium Iron Phosphate (LiFePO_4) battery solutions specially engineered for power substations and switchgear backup systems. These batteries are designed to ensure uninterrupted DC power to protection relays, breakers, and automation systems—guaranteeing operational safety and grid reliability. Tested in NABL-accredited laboratories standards, ARENQ batteries deliver trusted performance for substations, control panels, and grid automation systems across India.

-  LFP chemistry with advance thermal & electrical protection
-  Long Life - 6000+ cycles, lasting over 10-15 years.
-  Fast Charging – Charges quicker than lead-acid and Ni-Cd.
-  High Efficiency – >95% round-trip energy efficiency.
-  Deep Discharge Supports up to 100% Depth of Discharge.
-  Compact & Lightweight
Smaller footprint, easier handling.
-  Wide Temperature Range
Works from -20°C to $+60^{\circ}\text{C}$.
-  Smart BMS – Built-in protections and remote monitoring.



The ARENQ Substation Battery series range also includes system from 24V to 220V.





General Characteristics

MODEL	ARENQLFP 25.6-100	ARENQLFP 32-100	ARENQLFP 48-100	ARENQLFP 112-100	ARENQLFP 220.8 -200
Power(W)	2560	3200	4800	11200	44160
Nominal Voltage(V)	25.6	32	48	112	220.8
Capacity (AH)	100	100	100	100	200
No of Cell in Series	8	10	15	35	69
No of Cell in Parallel	1	1	1	1	1
Total No of Cell	8	10	15	35	69
Cell Type	Prismatic				
Chemistry	LiFePO ₄				
Communication	RS485, can bluetooth optional				

Electrical Characteristics

Maximum Cut-Off Voltage (V)	29.2	36.5	54.75	127.75	251.85
Minimum Cut-Off Voltage (V)	22.4	28	42	98	193.2
Charging Voltage(V)	29.2	36.5	54.75	127.75	251.85
Charging Current Range(A)	50	50	50	50	100
Discharging Current Range (A)	100	100	100	100	200
Cell Discharging Protection Level (V)	2.8				
Cell Charging Protection Level (V)	3.65				
Balancing Current (mA)	200				
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.	35	42	50	400	1000
Power Connector	As per Requirement				