








Lithium LiFePO4 Battery

Arenq Electromagnet Crane Series

Crane Batteries

Arenq, a leading brand of Sunlit Power Pvt. Ltd., brings robust and reliable Lithium Iron Phosphate (LiFePO₄) battery solutions specially engineered for electromagnetic crane operations. These cranes require powerful, instant, and safe DC backup to activate electromagnets used in lifting heavy ferrous loads—making Arenq the perfect battery partner for industrial crane systems. Our batteries are ensuring full compliance with industry safety standards while delivering high surge currents and excellent thermal stability for heavy-duty applications.

-  **High Surge Current Capability Supports the high initial current draw required for activating electromagnets during lifting.**
-  **LiFePO₄ Battery Chemistry Offers better safety, longevity, and stability compared to lead-acid batteries—especially in rugged work zones.**
-  **Long Lifecycle Up to 2500–3000 charge/discharge cycles, reducing replacement frequency and downtime.**
-  **Smart BMS with CAN/RS485 Enables real-time monitoring, temperature control, and battery protection during intense load cycles.**
-  **Reliable in Extreme Conditions Performs effectively in dusty, high-heat and vibration prone industrial environments.**



The Arenq Electromagnetic crane series range also includes system from 110V to 220V.

General Characteristics				
MODEL	ARENQLFP 112-100	ARENQLFP 204.8-100	ARENQLFP 220.8-100	ARENQLFP 220.8-200
Power(W)	11200	20480	22080	44160
Nominal Voltage(V)	112	204.6	220.8	220.8
Capacity (AH)	100	100	100	200
No of Cell in Series	35	64	69	69
No of Cell in Parallel	1	1	1	1
Total No of Cell	35	64	69	138
Cell Type	Prismatic			
Chemistry	LFP			
Electrical Characteristics				
Maximum Cut-Off Voltage (V)	127.75	233.6	251.85	251.85
Minimum Cut-Off Voltage (V)	98	179.2	193.2	193.2
Charging Voltage(V)	127.75	233.6	251.85	251.85
Charging Current Range(A)	50	50	50	100
Discharging Current Range (A)	100	100	100	200
Cell Discharging Protection Level (V)	2.8			
Cell Charging Protection Level (V)	3.65			
Balancing Current (mA)	200			
Cycle Life	2500 - 3000			
DOD Level	100%			
Temperature				
Working Temperature (°C)	-20 C to +60 C			
Storage Temperature (°C)	23 C - 27 C (30% SOC)			
Dimension(mm)	Customised			
Weight (Kg) Approx.	120	550	600	600
Power Connector	As per Requirement			