



Lithium Battery

Arenq Series



**AGV
Series**

ARENQ
Forward To Future

AGV

The ARENQ Series, developed by Sunlit Power Pvt. Ltd., features advanced Lithium Iron Phosphate (LiFePO₄) battery technology, specifically designed for Automated Guided Vehicles (AGVs). These batteries are ideal for a wide range of AGV applications including automated warehousing, smart factories, logistics hubs, and material transport systems. Engineered to deliver high performance, long cycle life, and superior safety, the ARENQ Series offers a reliable and intelligent power solution for continuous, unmanned operations where efficiency, uptime, and safety are critical.



**Smart Battery
Management
System (BMS)**



**Fast Charging
Technology**



**BMS with CAN / RS485
communication**



**High Energy
Efficiency**



**Compact &
Modular Design**



**Eco-Friendly
& Lightweight**



**Wide Operating
Temperature
Range**



**Long Cycle
Life**

The ARENQ AGV series range also includes system





General Characteristics				
MODEL	ARENQLFP 25.6-100	ARENQLFP 38.4-100	ARENQLFP 48-100	ARENQLFP 48-600
Power(W)	2560	3840	4800	28800
Nominal Voltage(V)	25.6	38.4	48	
Capacity (AH)	100	100	100	600
No of Cell in Series	8	12	15	
No of Cell in Parallel	1	1	1	3/4/6
Total No of Cell	8	12	15	45/60/90
Cell Type	Prismatic			
Chemistry	LiFePO ₄			
Communication	RS485, can bluetooth optional			
Electrical Characteristics				
Maximum Cut-Off Voltage (V)	29.2	43.8	54.75	
Minimum Cut-Off Voltage (V)	22.4	33.6	42	
Charging Voltage(V)	29.2	43.8	54.75	
Charging Current Range(A)	0 to 50A	0 to 50A	0 to 50A	0 to 50A
Discharging Current Range (A)	0 to 100A	0 to 100A	0 to 100A	0 to 600A
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.	40 kg	45kg	50kg	250kg
Power Connector	As per Requirement			