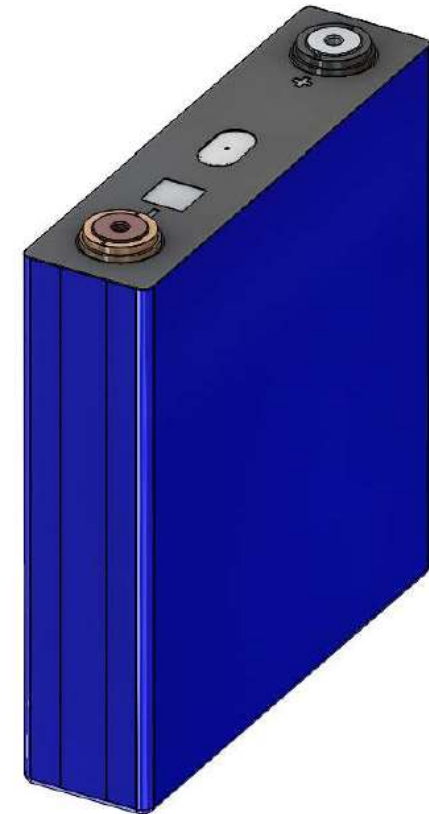

HVDC LFPR-345(150)300

Cell 3.2V 150Ah
Module(Shelf) 57.6V 150Ah
(18S1P)

전화국사
대형 기지국
대규모 에너지 저장 장치(RESS)
전기 추진과 하이브리드 추진선

Cell Specification

Item	Parameters	Remark	Reference
Model	LFPC-32150		
Nominal Capacity(Ah)	150	RT / 1C1C DCH to 2.5V	
Nominal Voltage(V)	3.2		
Internal Impedance(mΩ)	≤ 0.4	AC 1kHz	
Weight(kg)	3.22±0.2		
Energy Density(Wh/kg)	149	RT / 1C1C	
Energy Density(Wh/L)	324	RT / 1C1C	
Cycle Life(Cycles)	5000	80%SOC; RT / 1C1C; 2.5V to 3.65V	
Low Temperature Discharge Capacity Retention (-20°C)	≥ 60%	RT / 1C CC-CV to 3.65V @0.05C, -20°C DC to 2.0V	
Self-discharge Rate	≤ 4%	@month	
Standard Charge Current(A)	0.5C		
Max. Charge Continues Current(A)	1.0C	Max. Pulse Current 3C(10Sec)	
Max. Charge Voltage(V)	3.65		
Standard Discharge Current(A)	1C		
Max. Discharge Continues Current(A)	2C	Max. Pulse Current 5C(10Sec)	
Discharge End Voltage(V)	2.0		
Dimensions (mm)	44.7(width) * 174.2(length) * 190(height)		



Module Specification

Item	Parameters	Remark	Reference
Model	AESM-57150	18S1P	
Rated Voltage(V)	57.6		
Typical Capacity(Ah)	150	25°C 0.5C discharge	
Typical Capacity(KWh)	8.64	25°C 0.5C discharge	
Standard Charge Voltage(V)	63.9	Voltage per Cell 3.55V	
Standard Charge Current(A)	75	0.5C	
Standard Discharge Current(A)	75	0.5C	
Max. Cont. Charge Current(A)	150	1.0C / Max. Peak 2.0C	
Max. Cont. Discharge Current(A)	150	1.0C / Max. Peak 2.0C	
Communications	CAN	CAN 2.0	
Temperature Range of Charge(°C)	0 ~ 55		
Temperature Range of Discharge(°C)	-20 ~ 60		
Energy Density (KWh/L)	186.14		
Dimensions (mm)	303(width) * 720(depth) * 192.9(height)		
Weight (kg)	≤ 75		



System Specification [HVDC LFPR-345150]

Item	Specification	Reference
Model	HVDC-LFPR-345150	
Energy(KWh)	51.8	
Typical Capacity(Ah)	150	
Rated Voltage(V)	345.6	
Standard Charge Voltage(V)	383.4	
Standard End Voltage(V)	302.4	
Standard Charge Current(A)	75	
Standard Discharge Current(A)	75	
Maximum Charge Current(A)	150	
Maximum Discharge Current(A)	150	
Communications	CAN	
Operating Temperature(°C)	-20 ~ 60	
Energy Density	(Wh/L)	99.06
	(KWh/m2)	99.06
Dimensions (WxDxH) (mm)	760 x 690 x 973	
Weight (kg)	≤ 550	



System Specification [HVDC LFPR-345300]


1Rack/2System

Item	Specification	Reference
Model	HVDC-LFPR-345300	
Energy(KWh)	51.84 x 2	
Typical Capacity(Ah)	150 x 2	
Rated Voltage(V)	345.6	
Standard Charge Voltage(V)	383.4	
Standard End Voltage(V)	302.4	
Standard Charge Current(A)	75 x 2	
Standard Discharge Current(A)	75 x 2	
Maximum Charge Current(A)	150 x 2	
Maximum Discharge Current(A)	150 x 2	
Communications	CAN, ETHERNET	
Operating Temperature(°C)	-20 ~ 60	
Energy Density	(Wh/L)	101.39
	(KWh/m2)	197.71
Dimensions (WxDxH) (mm)	760 x 690 x 1950	
Weight (kg)	≤ 1054	



System Specification [HVDC LFPR-345300]

통합분전반 (PDS) (최대 5Rack/10System)

Item	Specification	Reference
Model	HVDC-PDPR-500S	
Main Voltage (V)	500V Max.	
Main Current (A)	500A Max.	
Distribution Voltage (V)	500V Max.	
Distribution Current (A)	250A Max.	
Distribution Channel	10 Ch.	
Remote Monitoring Interface	CAN, ETHERNET	
Alarm Output Max. Voltage (V)	60	
Alarm Output Max. Current (A)	1	
Alarm Output Max. Drop Voltage (V)	2	
Alarm Output Channel	2	
Operating Temperature(°C)	-20 ~ 60	
Dimensions (WxDxH) (mm)	760 x 690 x 1950	
Weight (kg)	≤ 200	