

SP48 SERIES

Standard Battery Pack

SP48 SERIES standard battery Pack is based on lithium-ion battery of SAMSUNG SDI. It has excellent safety, high energy density, longtime life.

Features

- Excellent safety & cycle life
- Auto protection & cell balancing
- Various of cell line-up(LCO, NCM, NCA, LFP, LMO)
- Scalability of voltage 48V-700V
- Easy scalability of capacity
- Communication & monitoring
- 19" 2U Rack-mount design
- ROHS compliance



Application

- Energy Storage System for PV System, Wind Power System, Smart Grid.
- Backup System for BTS, UPS, ATM, Communication.
- Battery Operated Machinery & Equipment.

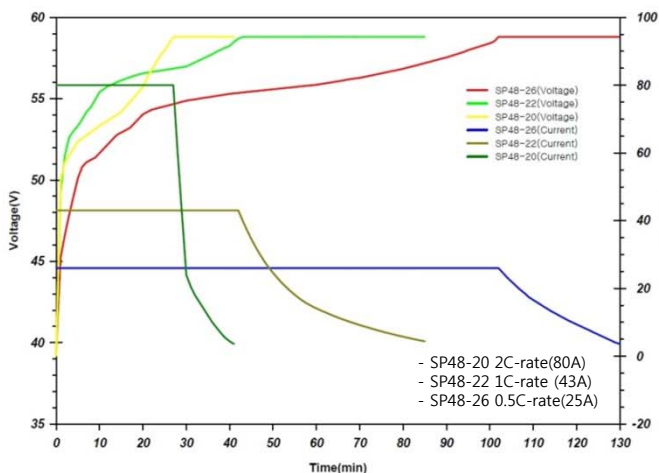
Item	SP48-20	SP48-22	SP48-26	SP48-11
Nominal Voltage/Capacity	51.8V/40Ah	51.8V/44Ah	51.8V/52Ah	51.2V/22Ah
Energy	2072 Wh	2279 Wh	2693 Wh	1126 Wh
SOC 80% Operation (@25°C)	Operating Voltage	42~56V		48~56V
	Charging Voltage	56V		56V
	Cycle Life	> 3000Cycle		> 3000Cycle
	Calendar Life	> 15Years		> 15Years
Char./Discharging Current(Max)	Continuous	2C	1C	0.5C
	Instant(3sec)	4C	2C	1C
Communication & Protection	BM-300(*1)			
Size(WHD)	430x88x445(2U)			430x88x485(2U)
Weight	About 21.8kg			About 26kg
Operation Temperature	-20~60°C			
Cell Type	Li-ion(18650) 3.7V/2000mAh	Li-ion(18650) 3.7V/2200mAh	Li-ion(18650) 3.7V/2600mAh	LFP(18650) 3.2V/1100mAh

* BM-300(*1) : It is required when configuring a system using the SP48 Series. Max. Continuous Current(30~200A), Size(430x132x445), Weight (About 15Kg) , Communication(RS-232, TCP/IP, Option : CAN)

* Product specifications and appearance are subject to change without notice.

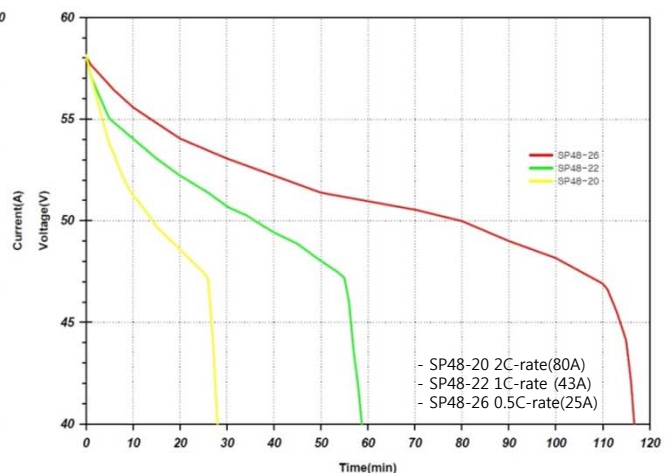
SP Series Charge Curve

CC-CV 58.8V, 0.1C-rate cut-off(@25°C)



SP Series Discharge Curve

2.75V/Cell cut-off(@25°C)



Batter Pack System

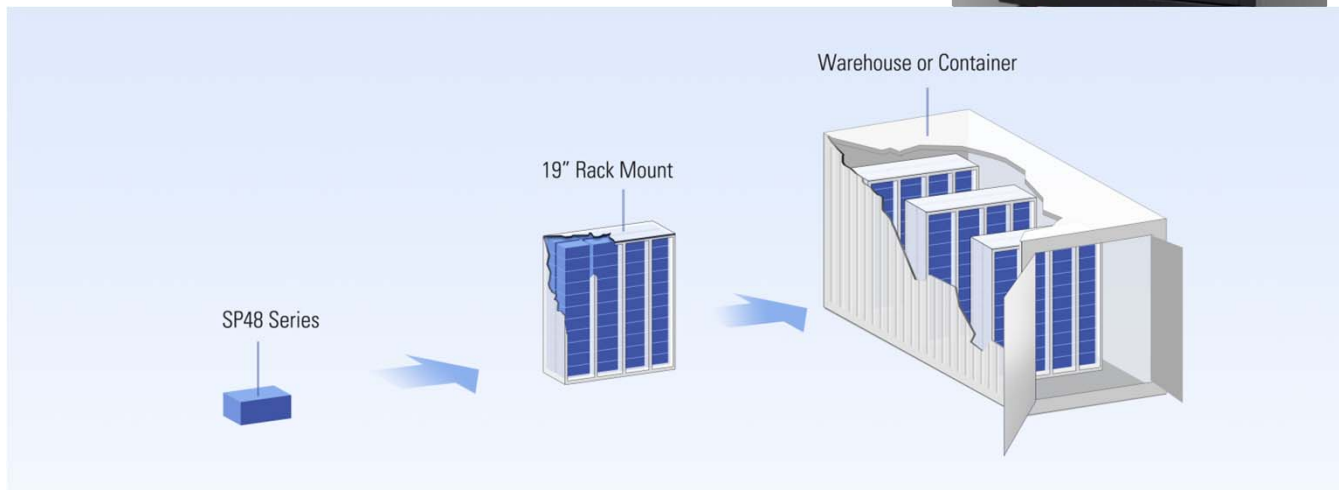
Lithium Battery Pack System

Battery Pack System is composed of SP48 Series.
It is very useful to expand capacity from KWh to MWh.

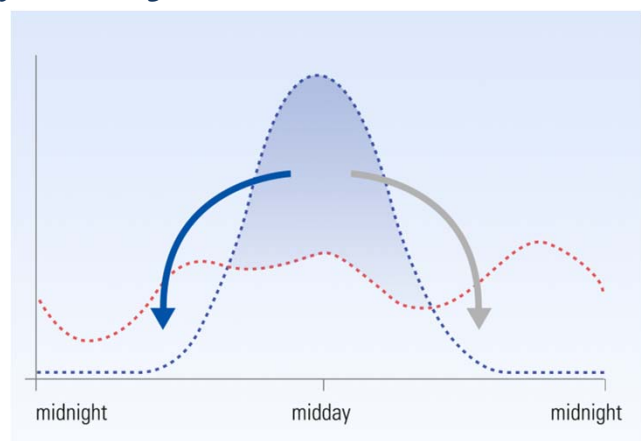
- High safety & energy density
- High efficiency (98%)
- Maintenance free
- Enhanced SOC algorithm
- Longtime life
- Easy scalability of voltage & capacity
- Communication & monitoring
- 19" 2U Rack-mount design



From KWh to MWh



Renewable Energy Smoothing



ENERGY & BATTERY SOLUTION

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