

# Lithium-ion Batteries

## Technical Specification



# Samsung SDI 34.6 kWh Lithium Ion Battery System

## UPS lithium-ion battery system

System specific data	
Nominal energy (kWh)	34.6
Rated capacity (Ah)	67
Number of modules	17
Cell type	3.8V 67Ah
Rated voltage (Vdc)	516.8
Charging current (A) <small>Specified voltage and current must be satisfied in all load and charging conditions</small>	Standard: 22.3 (1/3 C)    Maximum Continuous: 67 (1C)    Maximum Peak: 250A (2 second pulse)
Discharge cut-off voltage (V)	408 (recommended end of discharge voltage 435.2V)
Charge voltage (V)	571.2V floating
Cabinet dimensions WxDxH (mm)	650 x 530 x 2055
Cabinet weight with batteries (kg)	510
General data	
Battery type	NMC (nickel manganese cobalt oxide) lithium-ion
Operating temperature (recommended)	+18°C to +28°C (+23±5°C)
Operating humidity (recommended)	<90% RH, non-condensing (<60% RH, non-condensing)
Storage temperature (recommended)	0°C to +40°C (<0°C and 3.630V per cell to minimise capacity degradation)
Ingress Protection (IP) rating	IP 20
Thermal management	Air cooling
Status indication	LED status indicators
Communication	Internal: Differential UART 2Mbps    External: RS485 and TCP/IP
Dry contact	Yes
Product compatibility	
PW 9250DPA	Yes
PW 9500DPA	Yes
Kohler MF Series	Yes
PW 6000 (60-120 kVA)	Yes

### Notice:

After a full discharge at maximum continuous discharge power, cool the battery for at least 12 hours before another discharge in order to avoid over temperature protection. Immediate recharging is allowed with standard charging current. For optimal performance, wait until the battery temperature returns to at least ±3°C within the room temperature.

# Vision Revo Lithium Ion Battery Systems

## UPS lithium-ion battery system

System specific data	TP100	TP110	TP120	TP200	TP220	TP240
Nominal energy (kWh)	26.6	28.2	30.7	51.2	56.3	61.4
Rated capacity (Ah)	50	50	50	100	100	100
Number of modules	10	11	12	10	11	12
Cell type	3.2V 50Ah					
Rated voltage (Vdc)	512	563.2	614.4	512	563.2	614.4
Charging current (A) <small>Specified voltage and current must be satisfied in all load and charging conditions</small>	50	50	50	100	100	100
Discharge cut-off voltage (V)	448.0	492.8	537.6	448.0	492.8	537.6
Charge voltage (V)	544.0-552.0	598.4-607.2	652.8-662.4	544.0-552.0	598.4-607.2	652.8-662.4
Cabinet dimensions WxDxH (mm)	600 x 1000 x 2000				600 x 1000 x 2300	
Cabinet weight with batteries (kg)	550	580	620	900	970	1040
<b>General data</b>						
Battery type	LFP (lithium iron phosphate) lithium-ion					
Cycle life	>2500 cycles (at 25°C, 1C/1C, 100% depth of discharge)					
Operating temperature	Charging 0°C to +50°C Discharging -20°C to +65°C					
Operating humidity	<95% RH, non-condensing					
Ingress Protection (IP) rating	IP 21					
Storage temperature (recommended)	20°C to +35°C at 35-85% RH, non-condensing					
Thermal management	Air cooling					
Status indication	LED status indicators					
Communication	External: CAN / RS485					
Dry contact	Yes					
Fire suppression module	Optional					
<b>Product compatibility</b>						
PW 9250DPA	Yes					
PW 9500DPA	Yes					
Kohler MF Series	Yes					
PW 6000 (60-120 kVA)	Yes					

**KOHLER** POWER  
uninterruptible

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