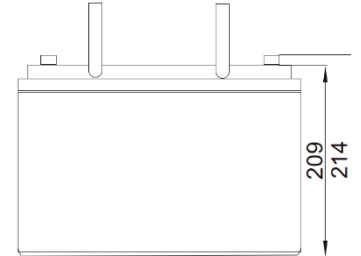
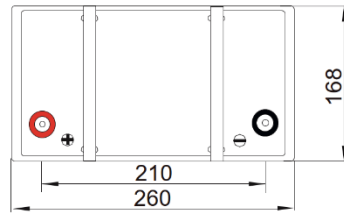


Lithium Battery

SM S12/100-LFP



BATTERY SPECIFICATIONS

Nominal voltage	12,8V
Battery capacity	100Ah (Tolerance ± 3%)
Nominal power	1280Wh
Ah efficiency	> 98%
Self-discharge	< 3% / month
Technology	LiFePO4 Prismatic
Cycle life (30% DOD)	8500 cycles
Cycle life (80% DOD)	3500 cycles

CHARGING

Max. final charge voltage	14,6V
trickle charge	13,8V
Rec. charging current	<50A
Max charging current	100A
charging procedure	CCCV/IU

BMS

Overcharge protection	14,8V
Discharge cut-off voltage	10V

TECHNICAL DATA

Dimensions (L x W x H) ± 2mm	260 x 168 x 209 mm
Connection type	M8-Threaded screw
Housing	ABS-Thermoplast
Operating temperature	-20°C to 55°C
Charging temperature	0°C to 55°C
Rec. storage temperature	10°C to 30°C
Battery management system	YES
series or parallel connection*	4pcs in series or 4pcs in parallel
Weight	11kg

DISCHARGING

Rec. discharge voltage	11,2V
Max discharge voltage	10,8V
Rec. discharge current	60A
Max. discharge current	100A
Discharge peak current	200A/3s

DIRECTIVES

Certificate	UN38.3, CE
Shipping classification	UN 3480, CLASS 9

***SM S12/100-LFP allows in series connection or parallel connection, which can connect with 4pcs in series or 4pcs in parallel, don't suggest in Serial connection and parallel connection at the same time.**

THE MAXIMUM DISCHARGE CURRENT OF CONNECTED BATTERIES CAN BE CALCULATED AS FOLLOWS

Number of batteries x max discharge current x 0.7 = max discharge current of the battery pack

Lithium Battery

SM S12/100-LFP



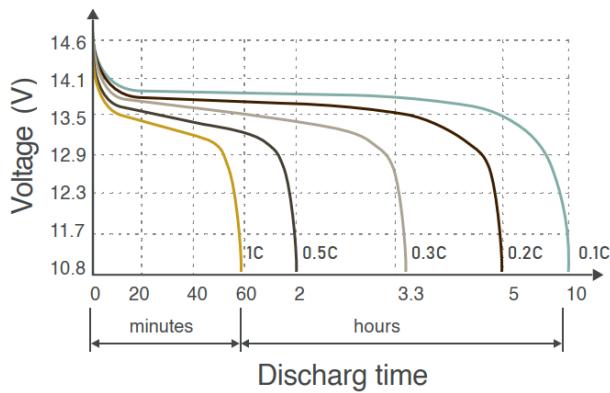
CONSTANT CURRENT DISCHARGE DATA (AMPERES AT 25°)

Discharge time	1h	2h	3h	4h	5h	10h	20h
Cut-off voltage (10.8 V)	100A	50A	33,4A	25A	20A	10A	5A

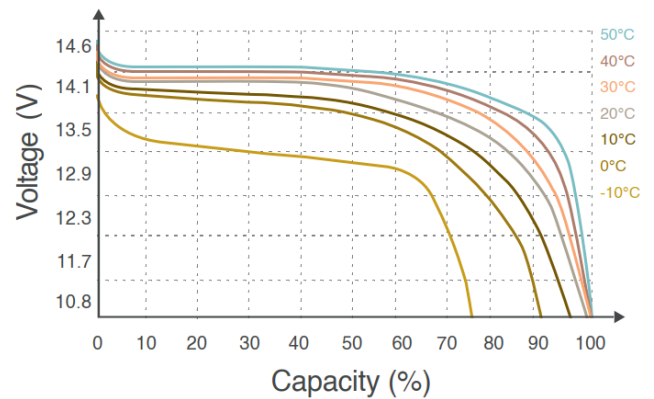
CONSTANT POWER DISCHARGE DATA (WATTS AT 25°)

Discharge time	1h	2h	3h	4h	5h	10h	20h
Cut-off voltage (10.8 V)	1280W	640W	426,7W	320W	256W	128W	64W

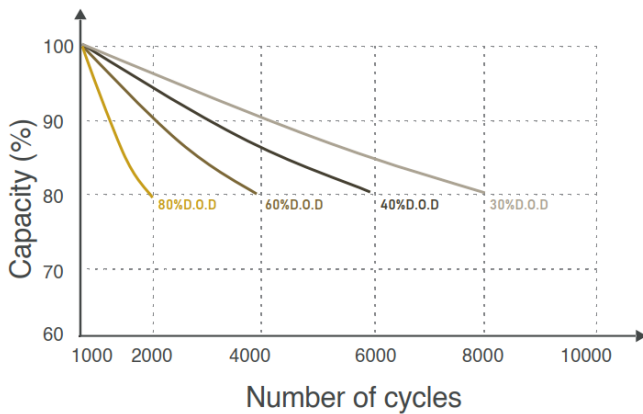
Discharge characteristics (25°C)



Discharge curve at different temperatures (0.5C)



different dod discharge cycle life curve 0.2C 25°C



state of charge curve (0.5C, 25°C)

