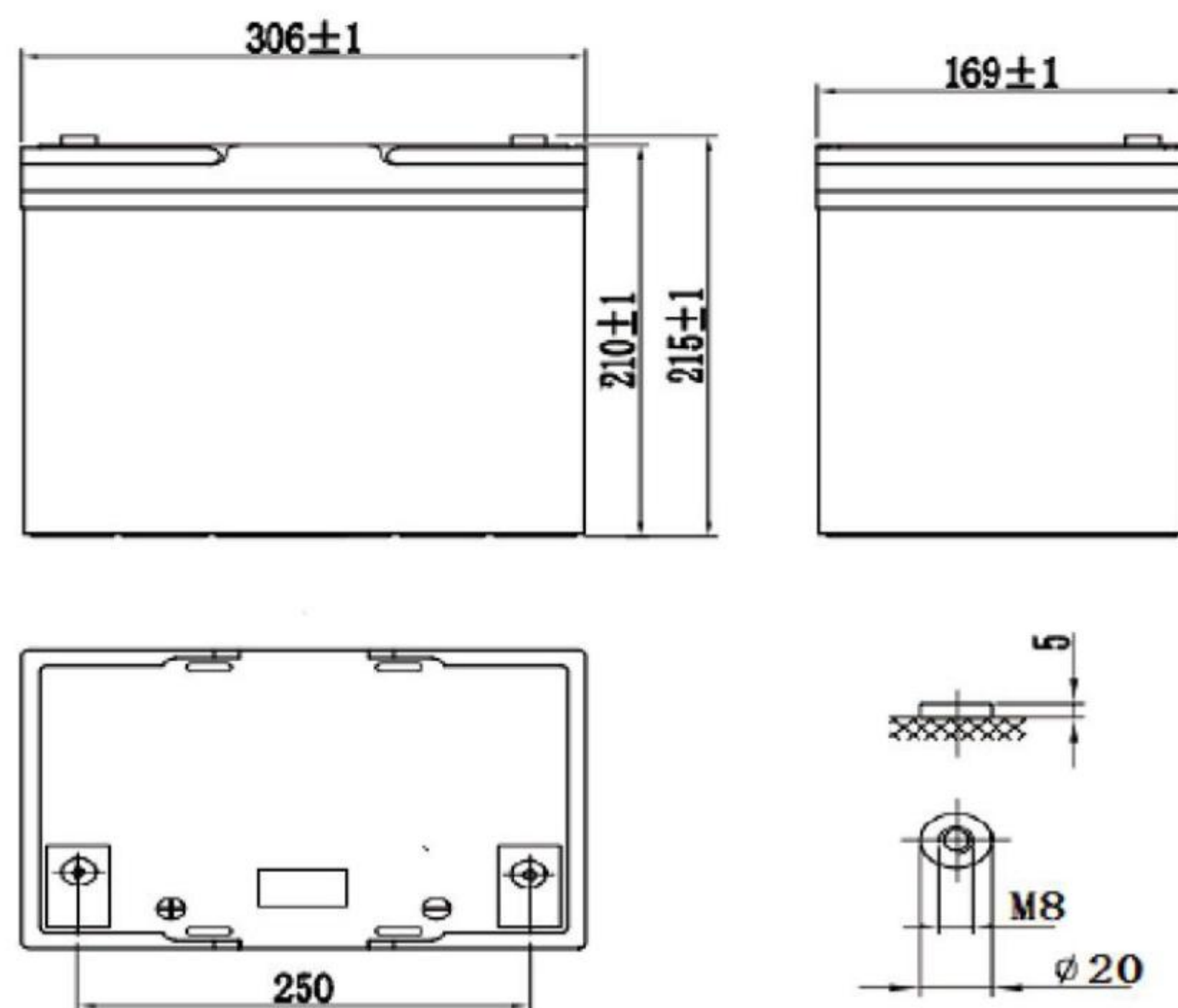
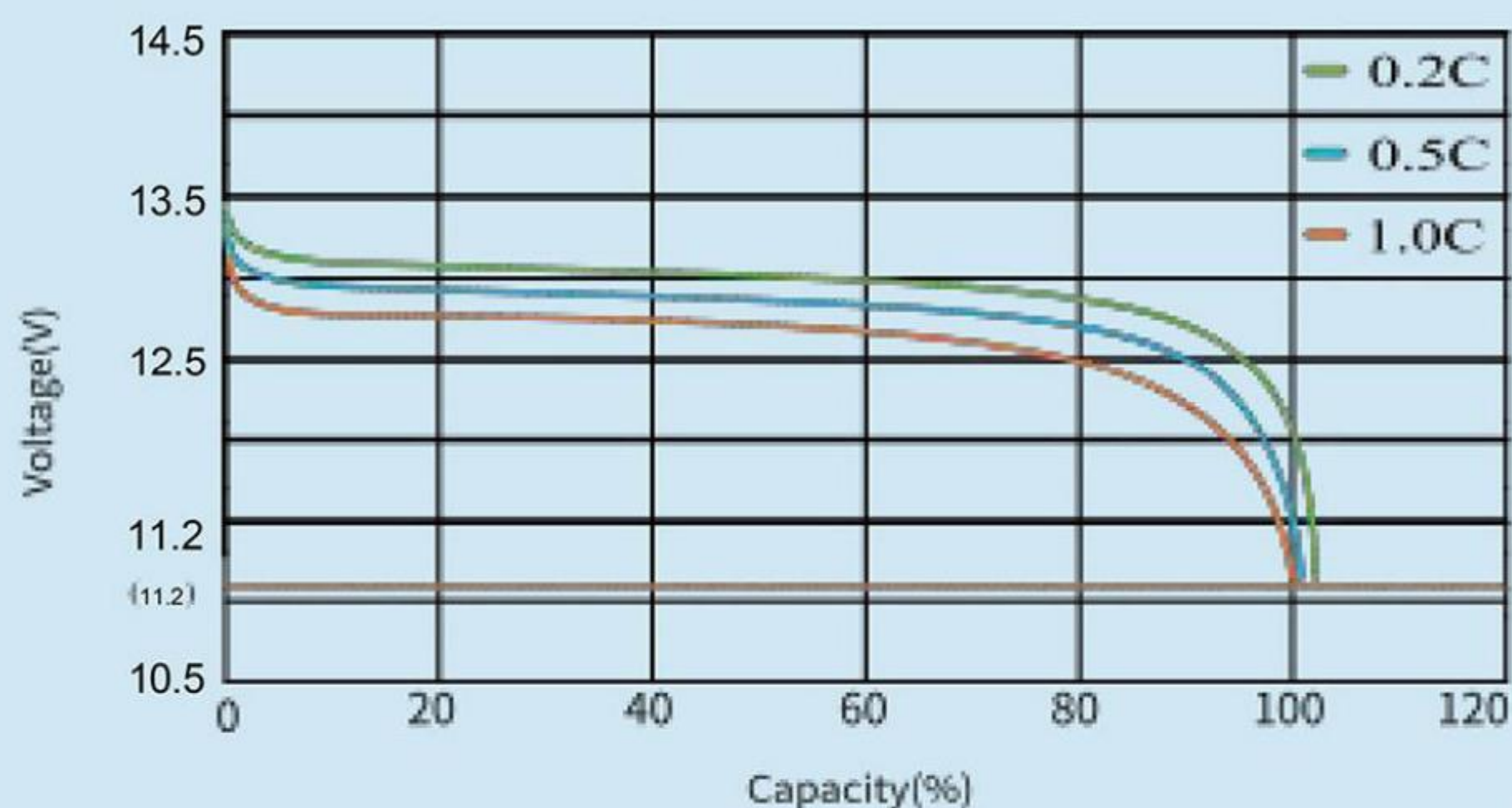


## LiFePO4 in Lead acid case

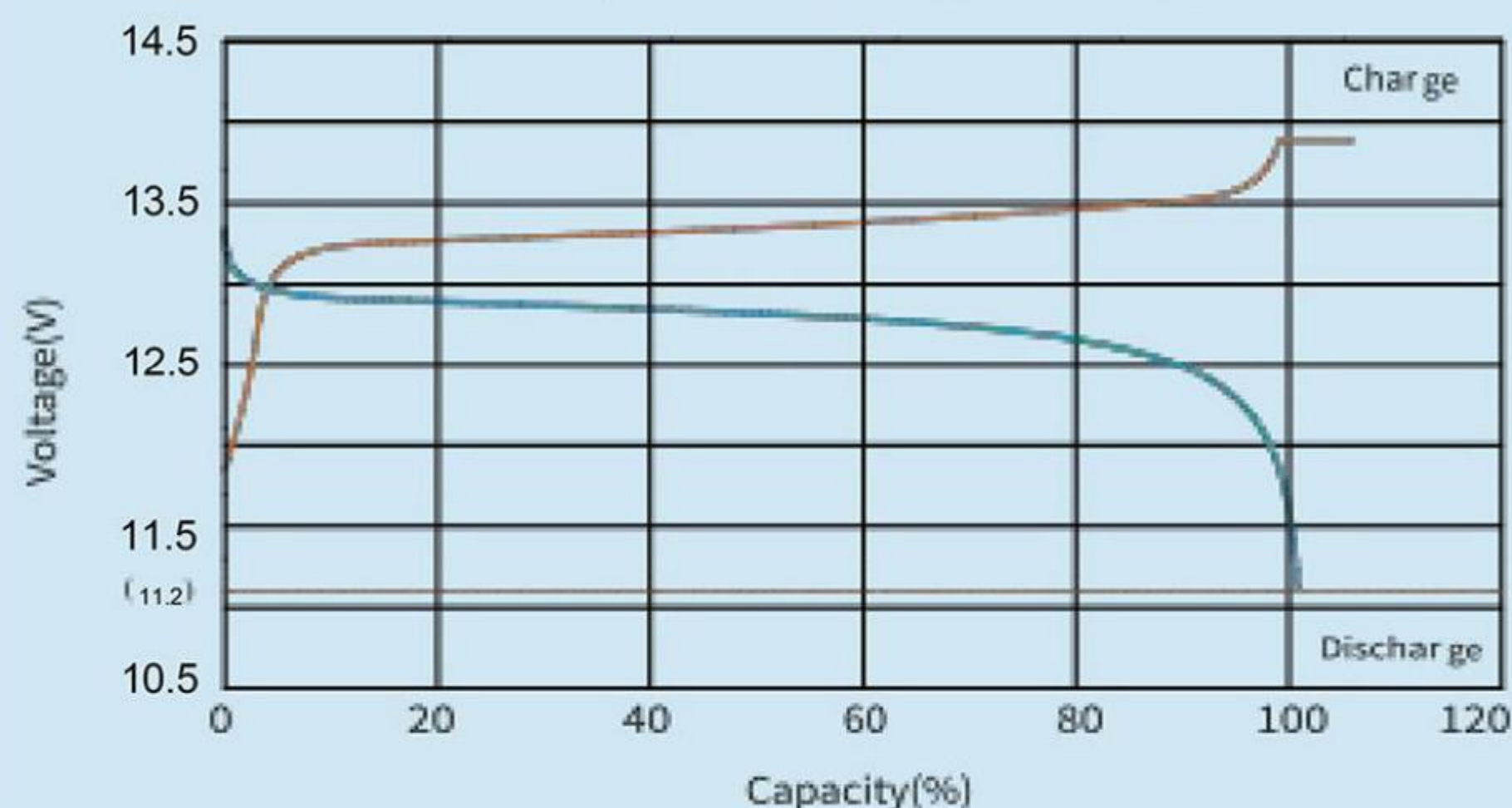


## Characteristics Curve

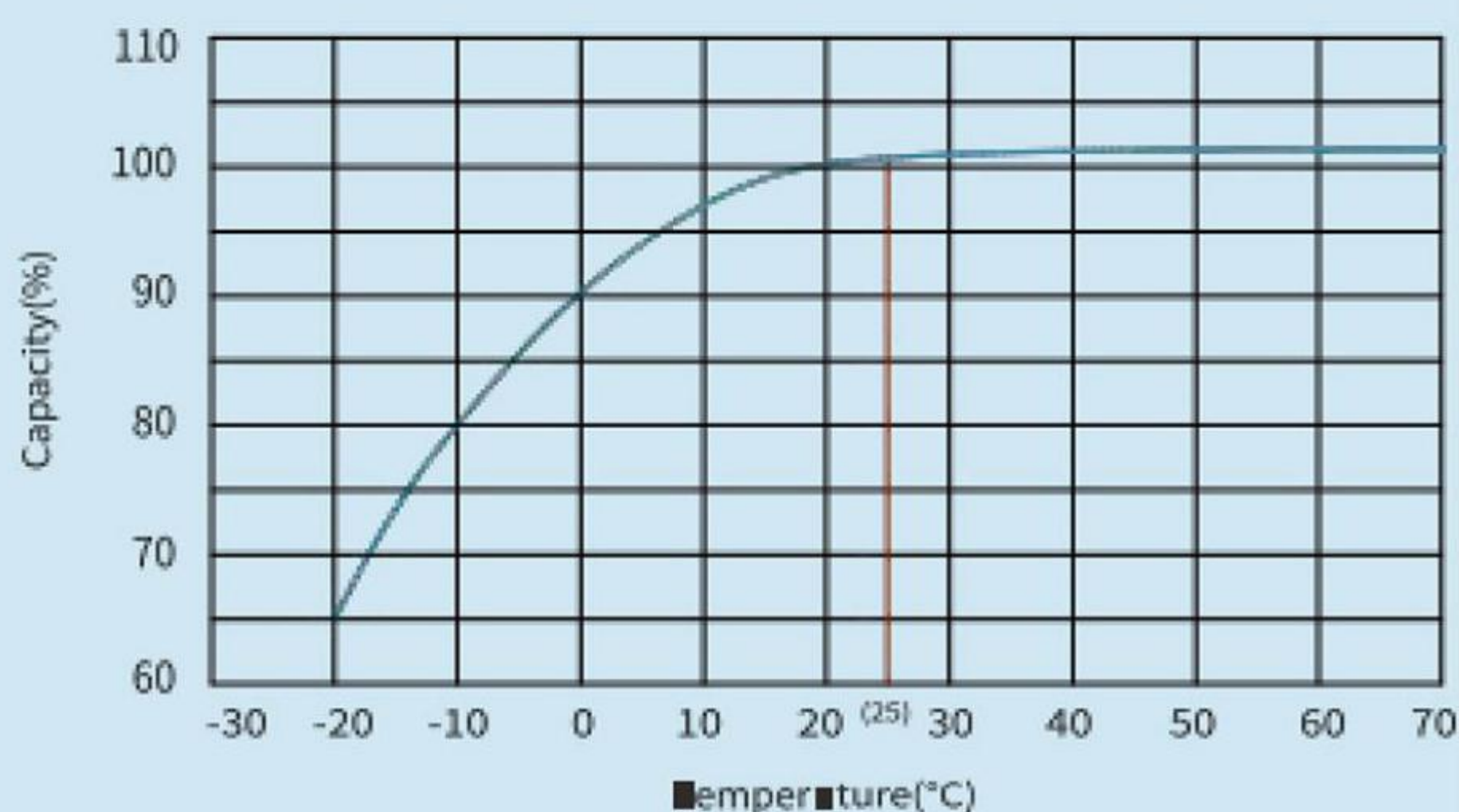
Discharge Performance at 25 °C



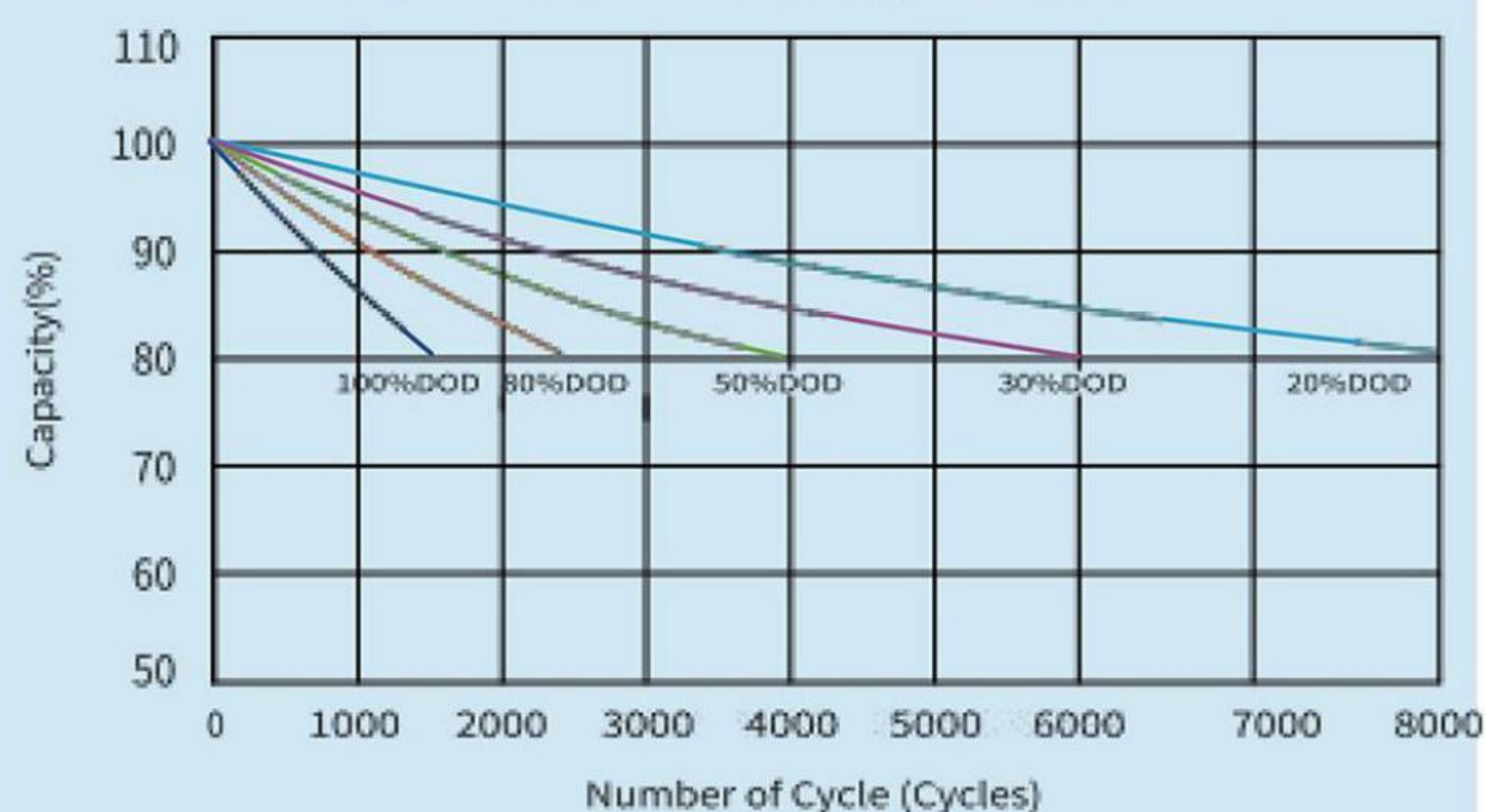
Charge and Discharge at 25°C, 0.5C



Temperature Effects on Capacity at 0.5C



Cycle Life with DOD @ 0.5°C, 25°C



# 6. Battery



MODEL	AP-551	AP-552	AP-556	AP-558
<b>Mechanical specifications</b>				
Housing material	ABS			
Battery materials	Lithium iron phosphate			
Terminal blocks	M8			
IP rating	IP65			
<b>BMS characteristics</b>				
Recommended charging current	50A		100A	
Maximum charging current	100A		200A	
Maximum continuous discharge current	100A		200A	
Recommended charging voltage	13.6~13.8V		27.2~27.6V	
Maximum charging voltage	14.4V		29.2V	
Overcharge protection voltage	14.8~15V		29.6~30V	
Charging mode	CC/CV			
Discharge cut-off voltage (BMS)	8.8V		17.6V	
<b>Basic performance</b>				
Nominal voltage	12.8V		25.6V	
Rated capacity	100Ah	200Ah	100Ah	200Ah
Standard discharge time	100A@60min	100A@120min	100A@60min	100A@120min
Energy storage capacity	1.28KWh	2.56KWh	2.56KWh	5.12KWh
Resistance	≤15mΩ	≤10mΩ	≤15mΩ	≤15mΩ
Self-discharge rate	≤2% month			
Cells	Square 100Ah		Square 105Ah	
Cycle life	2500times(1C/1C)			
size	306*169*215	522*238*223	483*170*240	520*269*220
weight	10.1KG	19.5KG	21KG	43KG
<b>Compliance</b>				
authentication	CE UN38.3 UL1642 IEC62133			
Traffic assessment	UN3480, CLASS 9			
<b>Charging performance</b>				
Rated charging current	50A		100A	
Maximum charging current	100A		200A	
Rated charging voltage	13.6~13.8V		27.2~27.6V	
Charging cut-off voltage	>14.8V(0.5~1.5S)		>29.6V(0.5~1.5S)	
Recharge voltage	<14.4V		<28.8V	
Unit balancing voltage	<14V		>3.5V	
Number of system concatenation	≤4		≤2	
<b>Discharge performance</b>				
Number of system concatenation	100A		200A	
Pulse current (<=5S)	600A			
Rated discharge cut-off voltage	11.2V		22.4V	
Minimum discharge cut-off voltage	>10V		>20V	
Reconnect the voltage	>10.4V		>20.8V	
Short-circuit protection	200~800 μs			
Short-circuit current	2200A			
<b>Temperature performance</b>				
Discharge temperature	-20~60℃			
Charging temperature	0~45℃			
Storage temperature	-5~35℃			
Superheating cut-off temperature	70℃	65℃	70℃	70℃
Relink the temperature	50℃	48℃	50℃	50℃

Product specifications are subject to change without further notice

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