



RACK MOUNTED 2.0 & RACK MOUNTED 2.0 PLUS

**FOR HOME STORAGE
AND COMMERCIAL USE**

**SAFEST
LIFEPO4
BATTERY**



48V 100AH

Crafted out of Lithium Iron Phosphate (LiFePO4) technology, this is a battery built to last. with 4500+ recharge cycles (and up to 6000 @80%DOD) the 100 Ah provides 5 X the lifespan than your typical SLA battery. Built in smart BMS which can realize real-time monitoring the battery, compatible with inverters of multiple brands, which can support 36 units parallel connection. It is the best home storage solution available in the market.

LiFePo4 Battery	Rack Mounted 2.0		Rack Mounted 2.0 Plus
Specifications			
Nominal Voltage	48V		
Rated Capacity	100AH @0.2C to 40V		
Stored energy	4800Wh		
Cycle life	>4500 Cycles@80%DOD	>6000 Cycles@80%DOD	
Life Time (25C)	5 Years	10 Years	
Approx. Weight	About 49.3kg		
Internal Resistance	≤70.0 mΩ		
Max. Charge Current	108 A		
Max. Discharge Current100 A	125 A		
Charge Cut-off Voltage	54.8V		
Discharge Cut-Off Voltage	42.5V		
Dimensions	L 480mm×W450mm×H222mm		
Series & Parallel Connection	Maxium 32 units in parallel Connection		
Operating Temperature Range			
Charge	32°F (0°C) to 113°F (45°C)		
Discharge	-4°F (-20°C) to 140°F (60°C)		
Storage	-4°F (-20°C) to 140°F (60°C)		
Self-Discharge Rate	≤3%/month @ 25°C		
Communication Port	RS485, RS2332, CAN		



COMPLIED STANDARD

- ✓ IEC 62133
- ✓ UL 1642
- ✓ ISO9001
- ✓ ISO14001
- ✓ UN38.3
- ✓ RoHS

INTELLIGENT BMS FUNCTION

- Over charge protection functio
- Over discharge protection function
- Over current protection function
- Short-circuit protection function
- Temperature protection function
- Cell Balance function
- Communicate function
- Alarm function

APPLICATIONS

RESS BESS Back-up system Data center Telecon Energy storage system



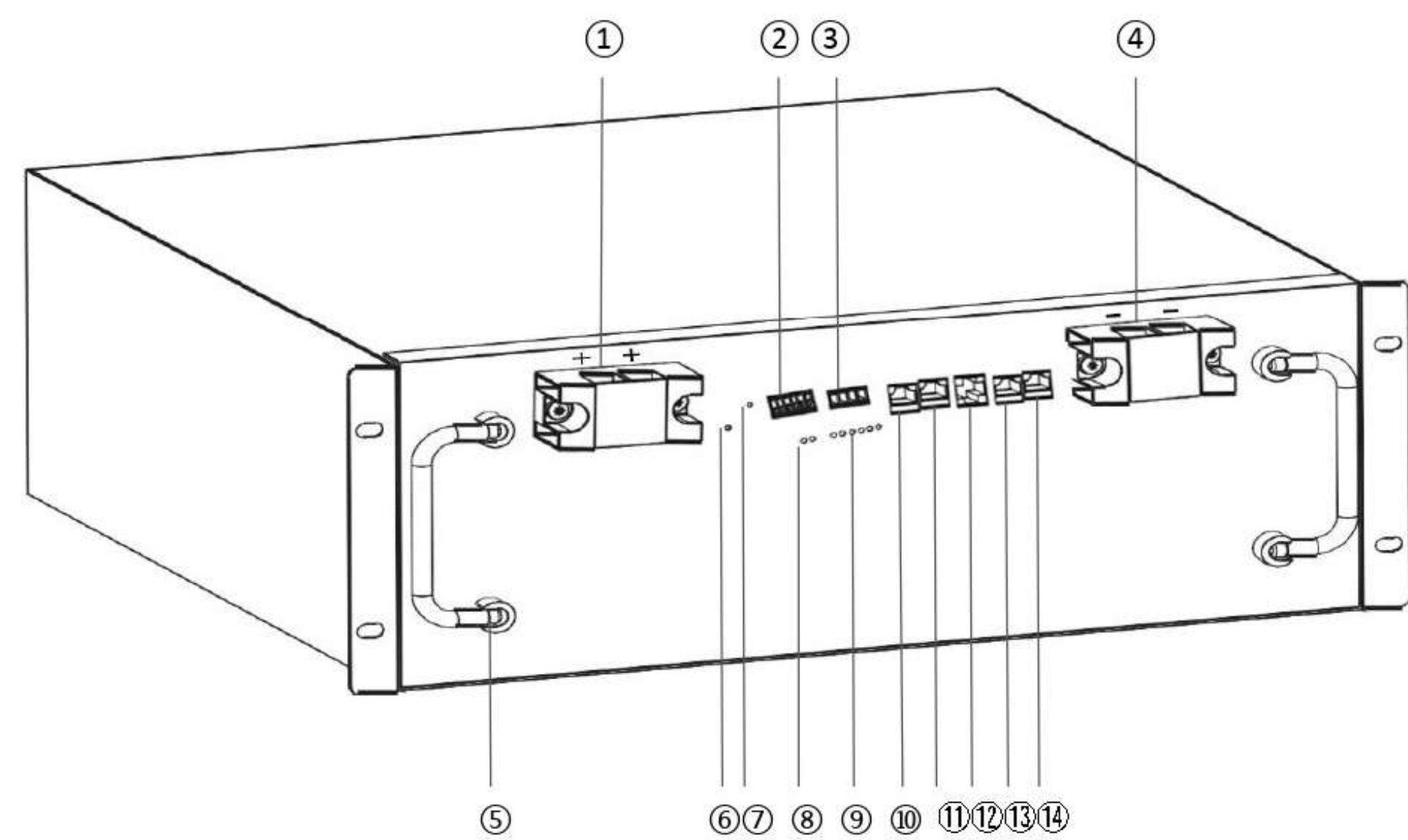


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DANIYALPUR CHOWK, AIRPORT ROAD, KARNAL, HARYANA (13200)



① Positive Terminal

② ADD Dialer

③ DRY CONTACT

④ Negative Terminal

⑤ SS Handle

⑥ ON/OFF Button

⑦ Reset Key

⑧ Run Indicator Light

⑨ Electricity Volume Indicator

⑩ RS485 Port

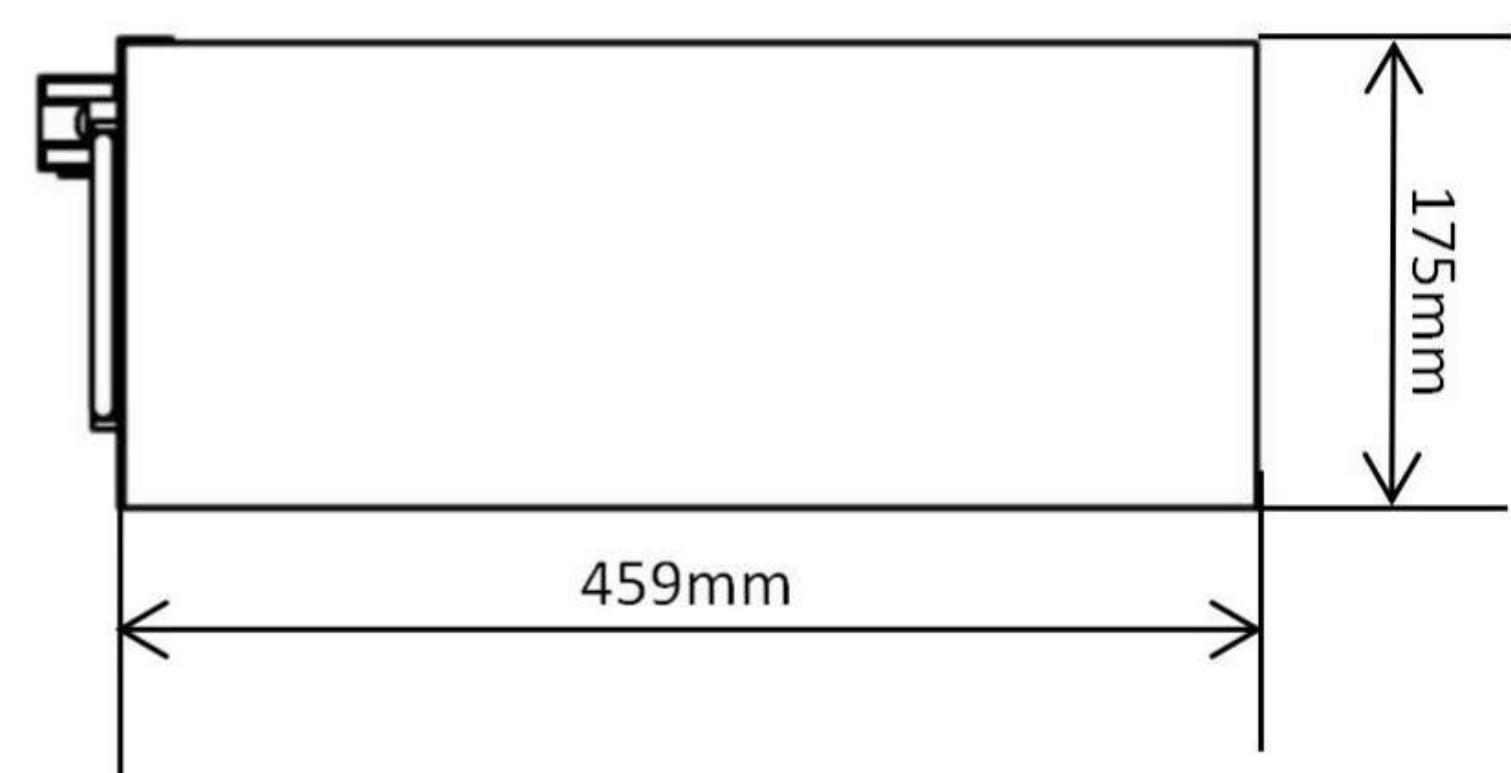
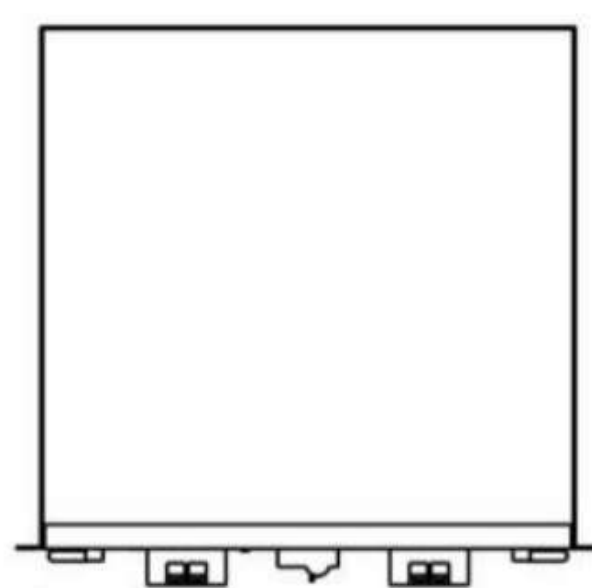
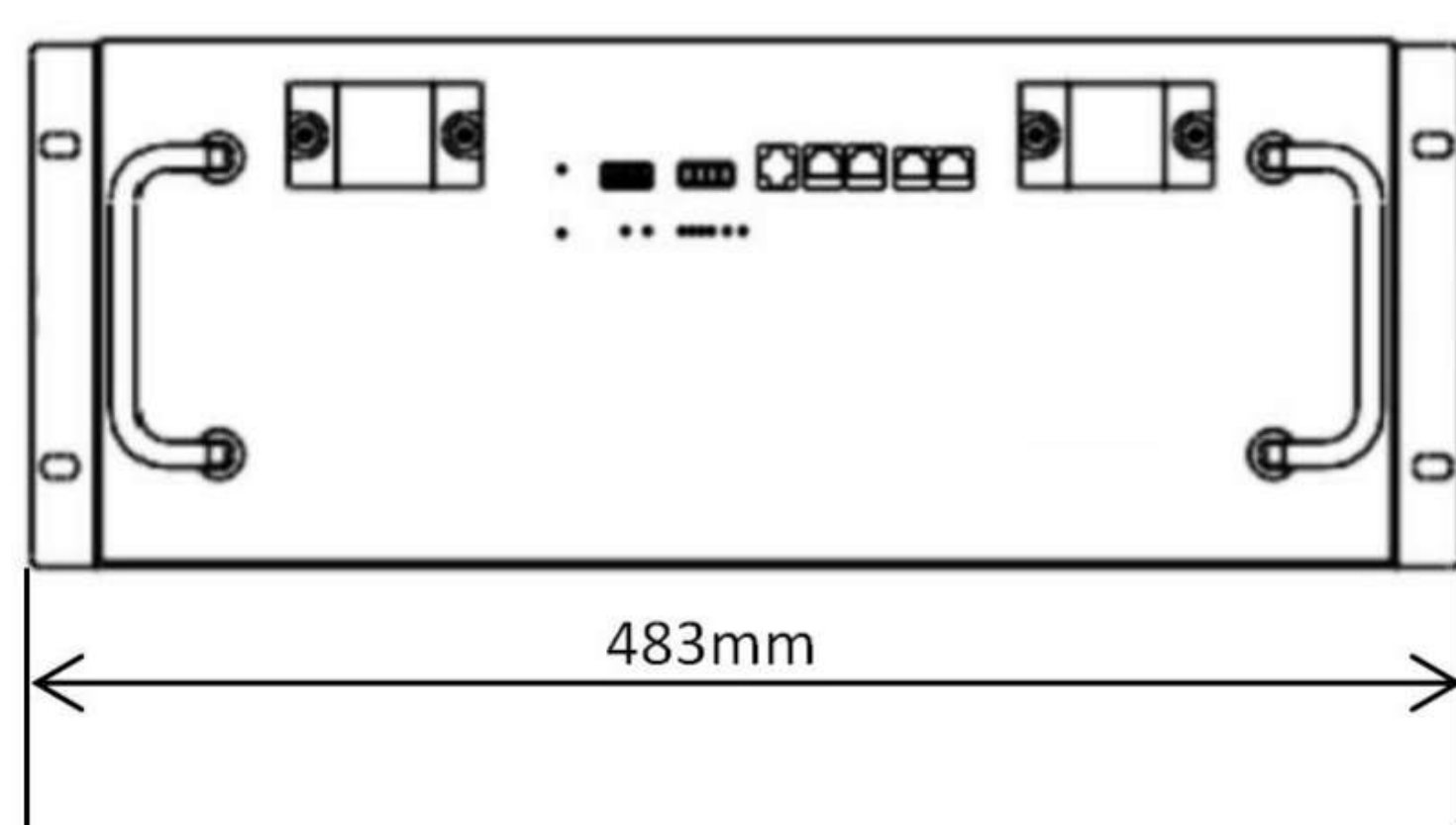
⑪ CAN Port

⑫ RS232 Port

⑬ RS485 Port

⑭ RS485 Port

BATTERY DIMENSIONS

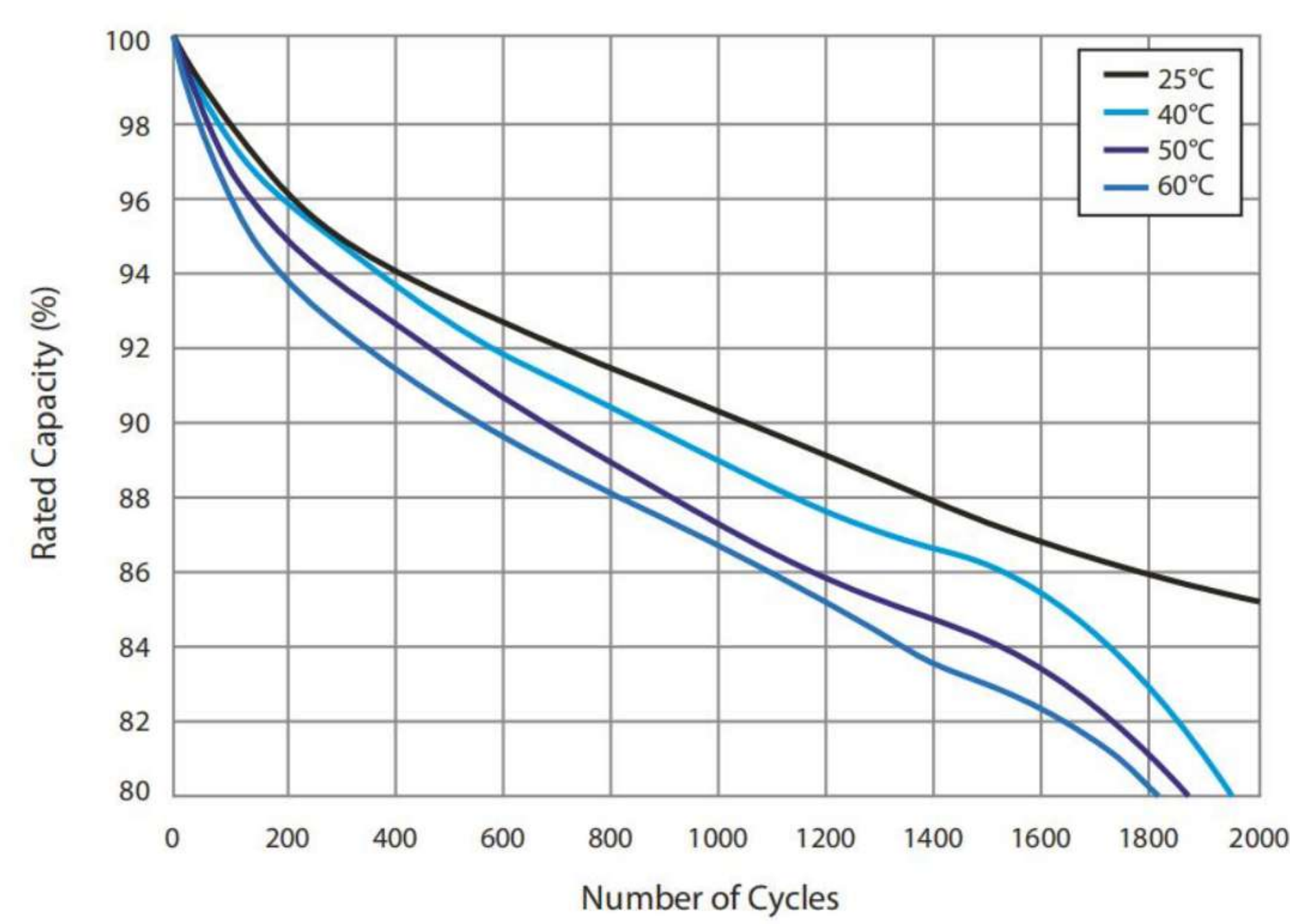


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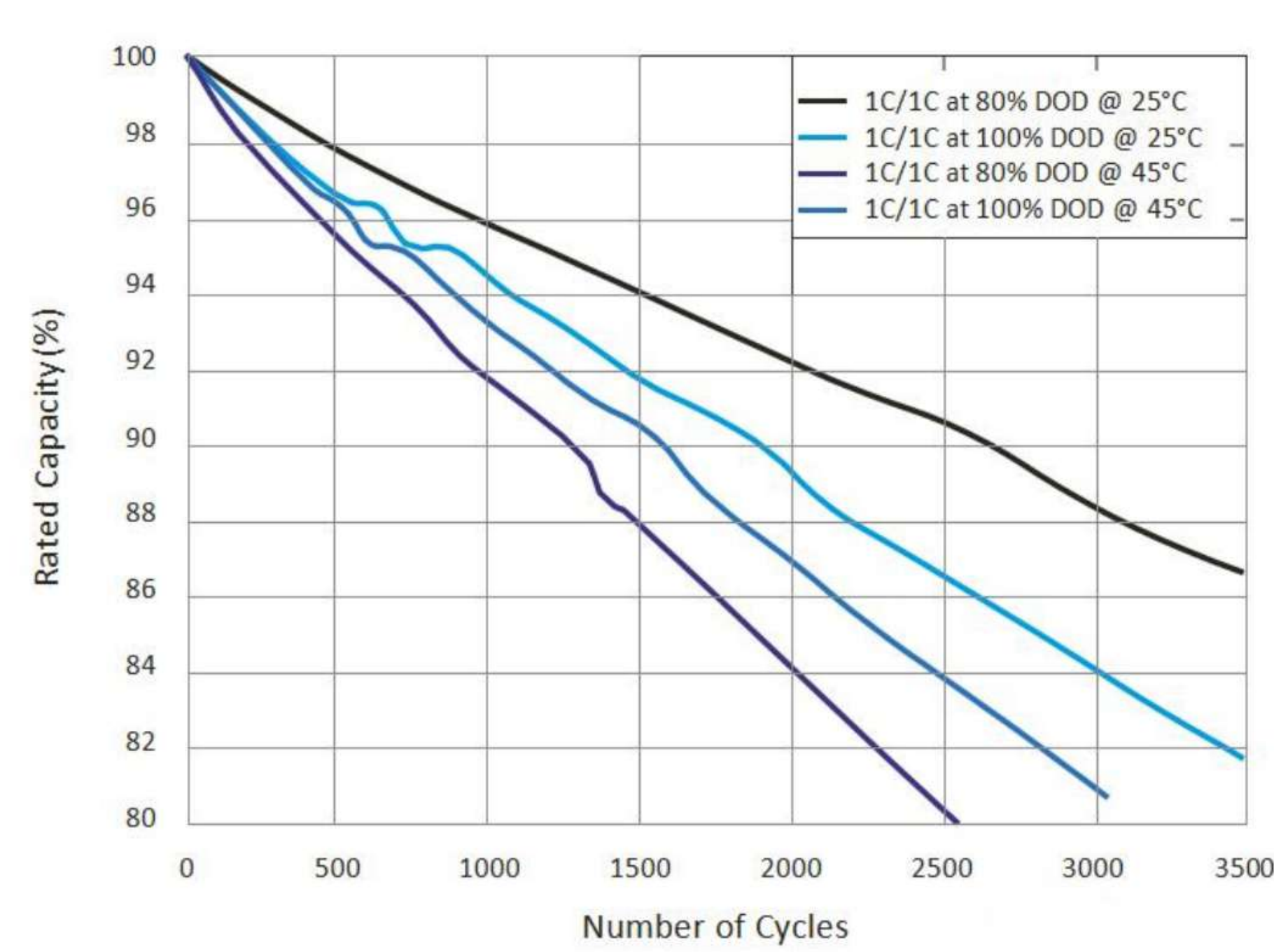


48V RACK MOUNTED LITHIUM BATTERY

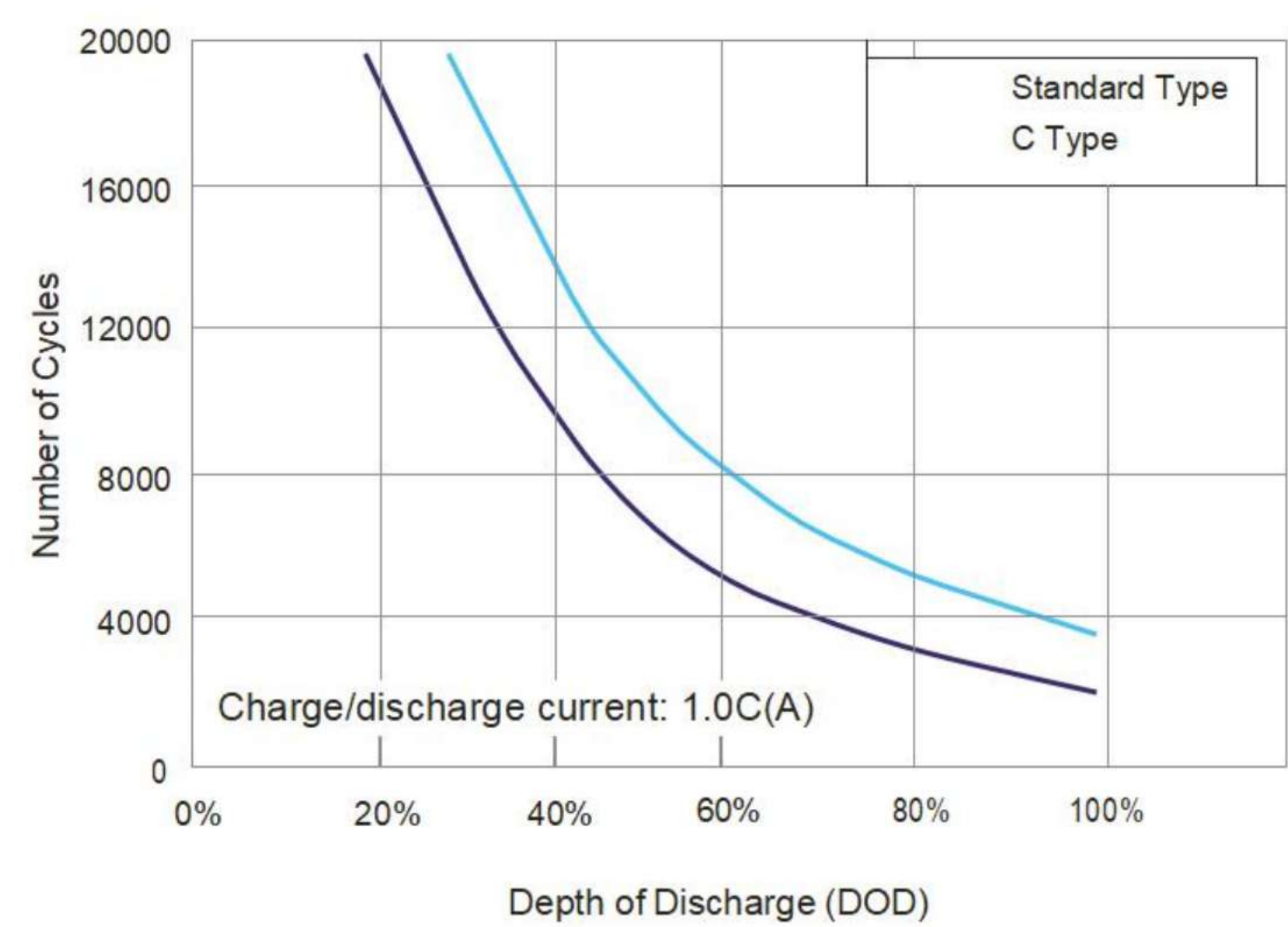
CHARACTERISTIC CURVE



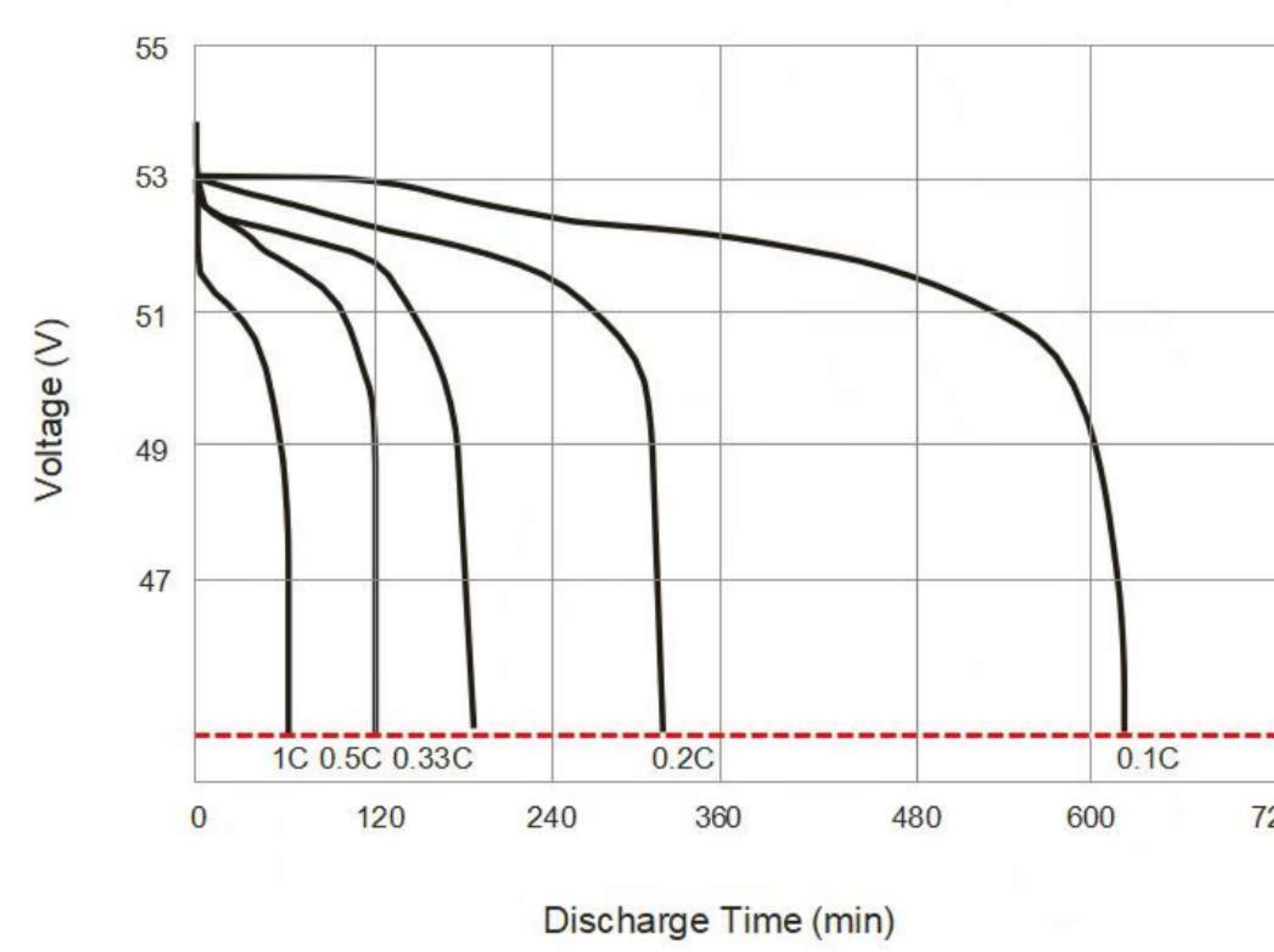
100% DOD Cycle Curves at Different Temperatures



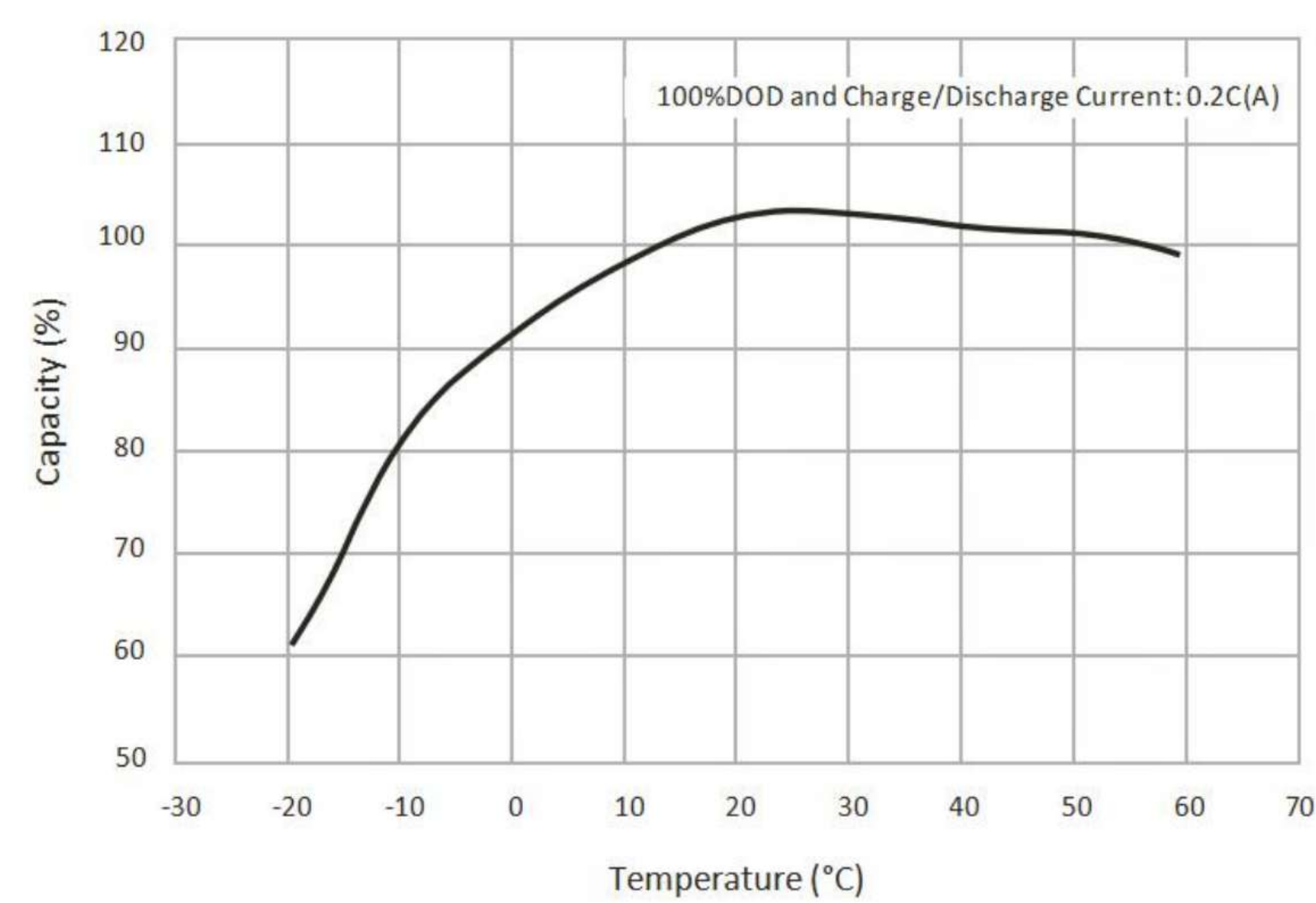
1C Cycle Curves at Different DOD & Temperatures



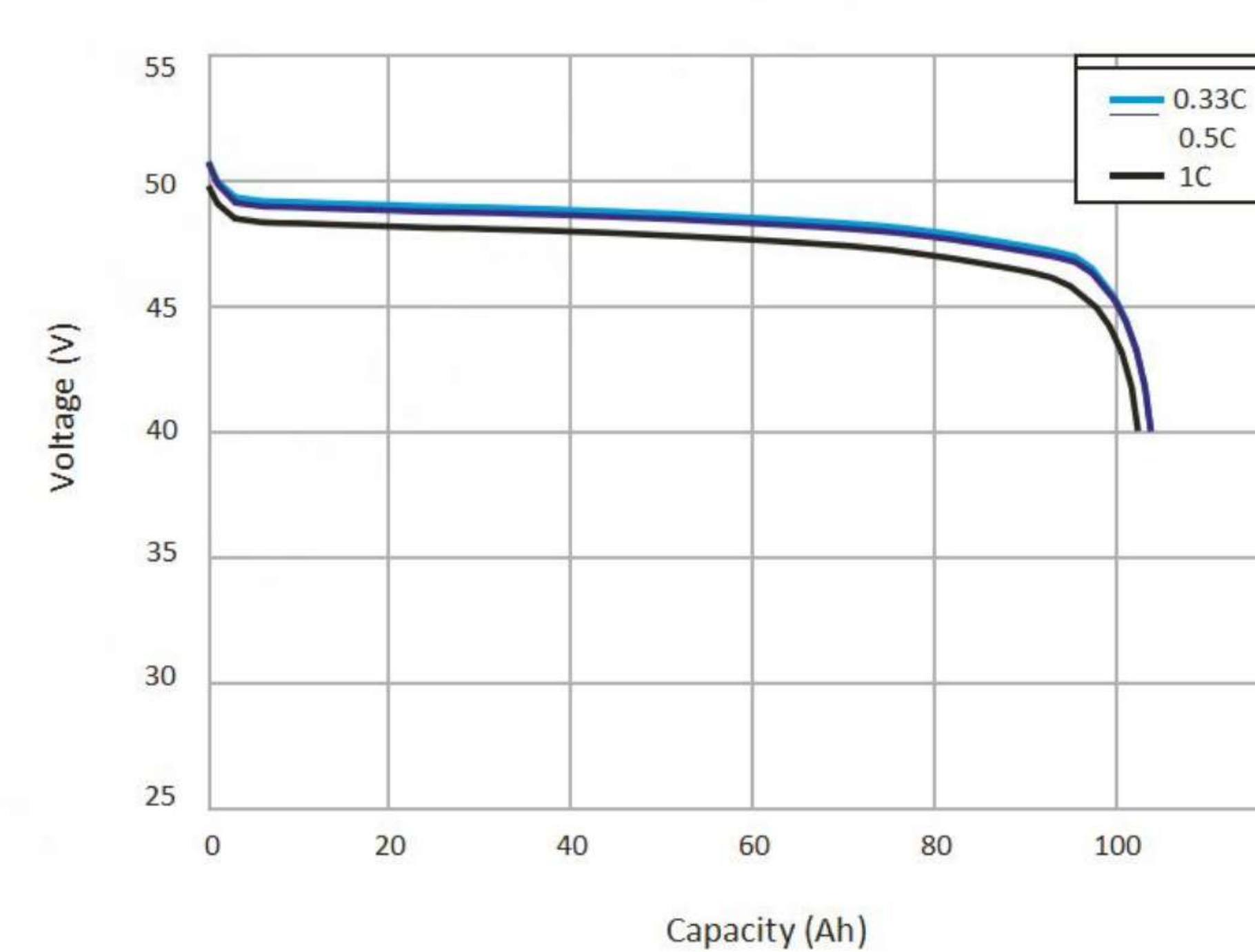
DOD in Relation to Cycle Life (25°C)



Discharge Time in Relation to Discharge Rate (25°C)



Temperature Effect in Relation to Battery Capacity



Discharge Capacity in Relation to Discharge Rate