



DW-LAR 24V50Ah



DW lithium series batteries provide superior performance, capacities and reliability. Using state of high power cell technology, the lithium series is designed for environmentally sensitive areas that require enhanced cycle life capabilities in commercial.

DW lithium batteries are widely used in industrial, residential, commercial and private applications. The maintenance free construction and advanced design features makes the lithium series the definitive choice for a wide variety of markets. Like solar and renewable energy storage, electric vehicle, golf cart and industrial equipment, floor machines, forklifts, aerial lifts, and robotics; marine, RV, and no-idle solution; Mobility and Medical Equipment; Telecom, Broadband and Cable TV; UPS systems.

Applications



BATTERY SPECIFICATIONS

Battery type-Chemistry	LiFePO4	Voltage Window	22.4V-28.8V
Nominal Voltage	25.6V	Recommend Charge Voltage	28.8V
Nominal Capacity	50Ah	Max Charge Voltage	29.2V
Energy Density	1280Wh	Recommend Charge Current	10A
Dimensions(LxWxH)	330*170*215mm	Max Continuous Current	50A
Weight	12.5KGS	Recommend Discharge Voltage	22.4V
Terminal Type	T16	Max Discharging Voltage	20V
Terminal Torque	8.5NM	Max Continuous Discharge Current	50A
Case Material	ABS	Peak Discharge Current	100A/3S
BMS Build-in	Yes	Cycle Life(0.2C, 25°C@80% DOD)	6000 Cycles
AH Efficiency – round trip	>98%	Discharge Temperature	(- 20 to 55)°C
Self Discharge per Month	<3%	Charge Temperature	(0 to 55)°C
Max in Parallel	4PCS	Storage Temperature	(- 20 to 45)°C
Max in Series	2PCS	Bluetooth(App)	Optional
LCD Screen	Optional	Heating Function	Optional

BMS CHARACTERISTICS

Primary Charging Protection	Current :55A	Delay Time: 20s
Second Charging Protection	Current :100A	Delay Time: 2~3s
Primary Discharging Protection	Current :55A	Delay Time: 30s
Second Discharging Protection	Current :100A	Delay Time: 2~3s
Over charge Voltage Protection	Voltage :29.2V	Delay Time: 1~2s
Over Discharge Voltage Protection	Voltage :20V	Delay Time: 1~2s
Temperature Protection	PCB	
	Temperature≥95	°C
	Recover≤85	°C
Communication Port	No	

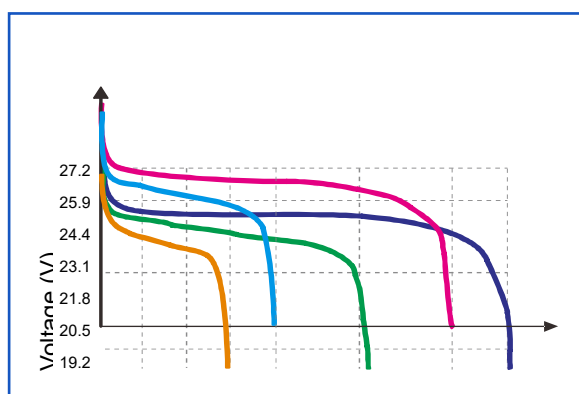
Constant Current Discharge Data (Amperes @ 25°)

Discharge Time	1h	2h	3h	4h	5h	10h	20h
Cut off voltage (22.4V)	50A	25A	16.7A	12.5A	10A	5A	2.5A

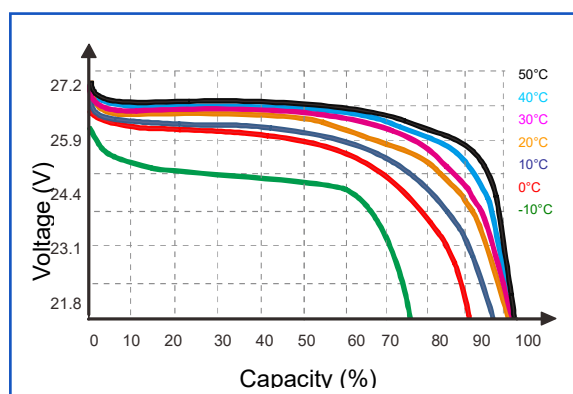
Constant Power Discharge Data (Watts @ 25°C)

Discharge Time	1h	2h	3h	4h	5h	10h	20h
Cut off voltage (22.4V)	1280W	640W	426.7W	320W	256W	128W	64W

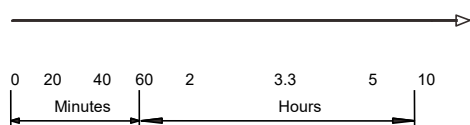
Discharge characteristics (25°C)



Different Temperature Discharge Curve (0.5C)

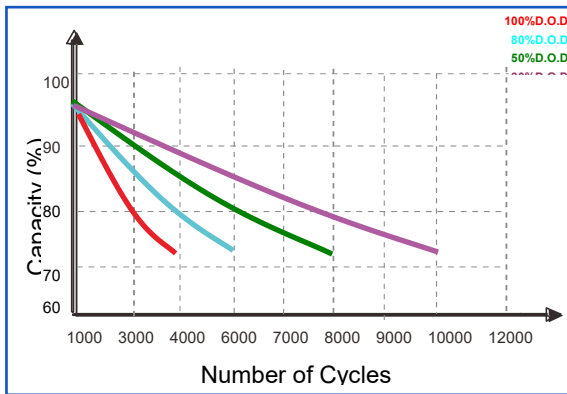


1C 0.5C 0.3C 0.2C 0.1C

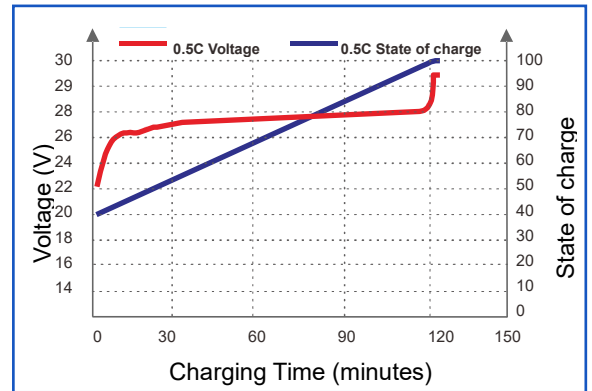


Discharge time

Different DOD Discharge cycle life Curve 0.2C 25°C



State of Charge Curve (0.5C, 25°C)



Note 1: Please always refer to the latest edition of our technical manual that published on our website to ensure safe and efficient operation.

Note 2: When make parallel connection, please full discharge batteries, then recharge after parallel connected; when series connect, please keep batteries with same remain capacity/

Note 3: Parallel connection is only for longer backup time, not for larger output power.