

Duramax DM100-12.8V DC Lithium Battery	
Item	Specification
Cell Type	Prismatic A-Grade LFP34135192 3.2V 100AH
Normal Capacity	100Ah
Normal Voltage	12.8V
Charge Cut-off Voltage	14.6V±0.4V
Low Voltage Cut-off	10.0V±0.4V
Max Charge Current	60A

Continuous Discharge Current	100A
Peak Discharge Current	200A (5sec)
Battery Housing	ABS
Can connect in Series Can Connect in Parallel Operating temperature	Up to 4 = 48V Up to 4 = 400A Charging: 0°C~45°C
	Discharging: -10°C~60°C
Storage temperature	-5°C~35°C
Storage Humidity	≤75% RH
Environmental condition	Temperature: 25±2c
	Humidity: 45-75%RH
	Atmospheric Pressure: 86-106 KPA
Terminals	Т8
Dimensions	330mm(L)*216mm(H)*175mm(W)
Weight	12Kg±1KG



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Test Methods and results/ General Information WARRANTY	
Test	Method & Result
0.2C Capacity Test	After standard charging, held battery for
Danult >100Ab	10mins, then discharge at 0.2C to volt-
Result = ≥100Ah	age 10.0V, recording the discharging time.
	Result = ≥100Ah
Cuala Lifa	Dravida constant augrent 0.20 charge
Cycle Life	-Provide constant current 0.2C charge to 14.6V, then constant voltage charge
Result = ≥5000	until the current declines to 0.01C.
	Rested 10mins then provided constant
	current of 1C discharge to 10.0V.  Rested another 10mins.
	Repeat above steps till continuous dis-
	charging capacity Higher than 70% of
	the Initial Capacities of the Cells
Canability of kaoning Current	Result = ≥5000 20+/-5C, After standard charging, held
Capability of keeping Current	the battery for 28days, then discharge
Result= ≥200min	at 0.2C rate to voltage 10.0V, recording
	the discharging time.
Battery appearance visual check:	Result= ≥200min  Do correctly connect the battery with
Carefully open the protective carton	Positive Pole and Negative Pole (usually
once you revive your battery.	Red + Black -).
Pls do check if the batteries have been	Please NOTE: Short circuit would possi-
impacted.  If everything goes well, pls go on.	bly happen due to wrong connection on +/- terminal.
If you see any problems ,pls contact us	
at the very first time without any delay.	Duramax Power Office
	Mob: +61 466 884 404 Tel: 03 9808 7337
	Web: www.duramaxpower.com.au

**Connection - Notice for Series or Parallel :**Do keep the battery packs within 1.0VDC voltage difference if you are going to connect them in series or parallel. The smaller voltage difference (0.1V-1.0V) of the battery the better for batteries connection.

DO NOT discharge the battery pack to 0% Power. Which we DON'T recommend. We recommend 50%dept of charge, which will maintain a good cycle of life.

Please charge the battery to 80% (100% would also be fine) and DO Recharge the Battery while they are discharged/used down to 20% Power.

DO Recharge the Battery Packs every 3 months if they are shelved/not used for long time.

## **Battery operation instruction**

Charging current Cannot surpass the biggest charging current which in this specification book stipulated o

Charging voltage Does not have to surpass the highest voltage range which in this specification book stipulated  $_{\circ}$  Charge temperature The battery must carry on the charge in the ambient temperature scope which this specification book stipulated  $_{\circ}$ 

Uses the constant electric current, and the constant voltage way charge, the prohibition reverse charges. Incorrect connection of the battery positive electrode and the negative terminal can damage the battery.

## **Discharging current**

The discharging current does not have to surpass this specification book stipulation the biggest discharging current, the oversized electric current electric discharge can cause the battery capacity reduction and to cause the battery overheat.

Discharge temperature

The battery discharge must carry on in the ambient temperature scope which this specification book stipulated.

## **Charge and Discharge:**

- Battery must be charged in appropriate charger only.
- Never use a modified or damaged charger.
- Do not leave battery in charger over 24 hours.
- Storage: Store the battery in a cool, dry and well-ventilated area.

**Warranty is 5 years** from the date of purchase from Duramax Pty Ltd. Please keep Proof of Purchase. Warranty is acted upon In case of cells are defected due to manufacturing process instead of customers abuse or misuse.