

Newcastle PSNU-DT Nucleus® Classic & PSNU-DTM Nucleus® Mini Battery Diagnostic Tool Quick Start Guide



Get to know your Nucleus® Lithium Batteries inside and out...



Our new PSNU-DT and PSNU-DTM Diagnostic Tools, designed exclusively for any PowerSwap Nucleus® Classic or Mini Lithium Battery, are advanced monitoring units that accurately measure and display detailed battery data. This includes the state of health (SoH), number of cycles, temperature levels, and more.

Ensure optimal battery performance, reliability, and runtime by periodically monitoring your smart battery's data.

The PSNU-DT and PSNU-DTM Diagnostic Tools can also help with planning and managing battery replacements as end-of-life nears.



Click to Watch the Video or

Scan to Watch the Video



HOW TO USE YOUR DIAGNOSTIC TOOL

STEP
1

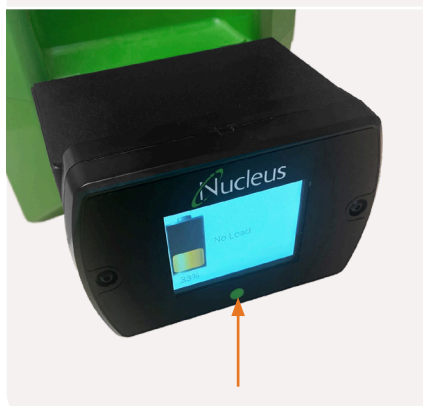
Insert the diagnostic tool into the battery, as shown. Do not force tool into battery upside down as this can damage the connectors.



STEP
2

Initial battery State of Charge will appear.

Press the green button at bottom to access battery health data.



STEP
3

Refer to the next page for a full explanation of battery data.

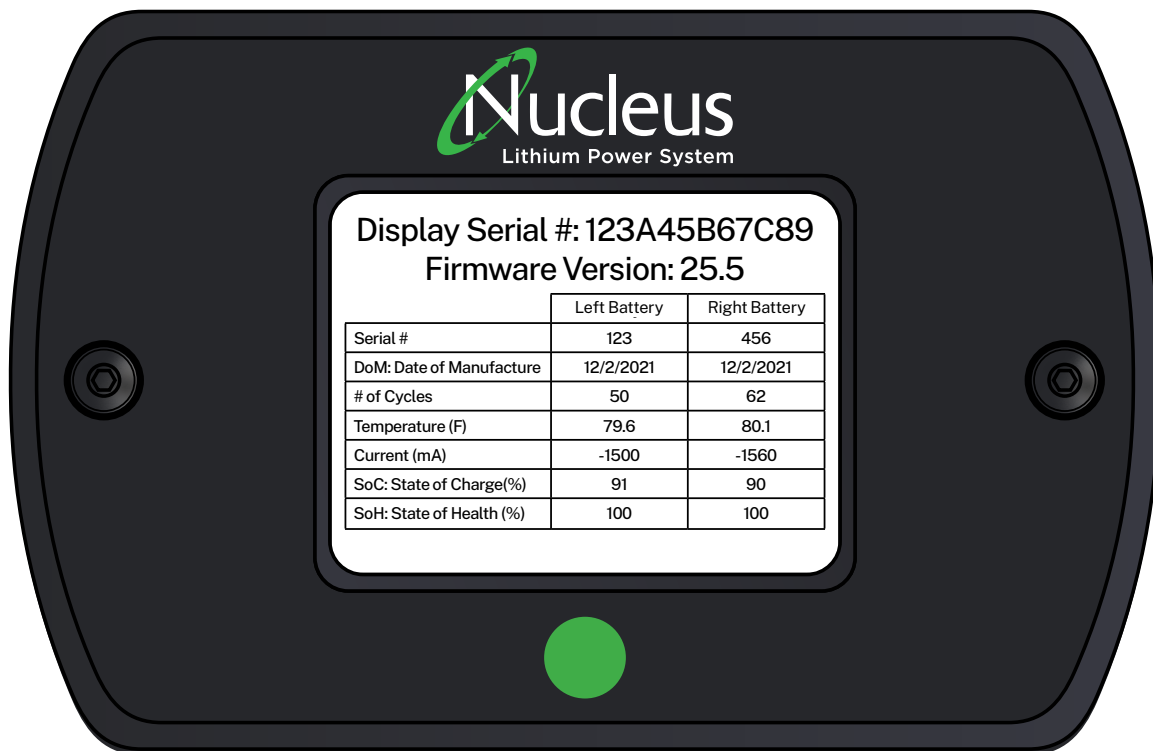


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ADDITIONAL DATA

The data shown is in the image below.



EXPLANATION OF DATA

ADDITIONAL NOTES		
SERIAL #	Unique serial number for your Nucleus® battery	
DOM: DATE OF MANUFACTURE	Date your battery was manufactured	Actual PCBA build date
# OF CYCLES	Number of discharge cycles the battery has experienced	One cycle equals 60% depletion
TEMPERATURE (F)	Current temperature of your battery. Battery runs hotter than ambient	Battery will hibernate if internal temperature is not within 32-140° F. Once internal temperature returns to allowable range, the battery will automatically reset.
CURRENT (MA)	Current flow from/to battery. Discharging will show as a (-) value	
SOC: STATE OF CHARGE (%)	Remaining battery capacity as a percentage of full capacity	Best practice: Charge battery after every use
SOH: STATE OF HEALTH (%)	Current full-charge battery capacity divided by original capacity	Industry standard recommends battery replacement at 75-80% SOH

TO ORDER NEW BATTERIES CALL 781.935.3450 OR EMAIL SALES@NEWCASTLESYS.COM



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