



The behavior and instructions for use of the PSNU-RM Remote Battery Meter for the PowerSwap Nucleus Lithium Power System are as follows:

- Upon startup, there is a splash screen with Newcastle Systems logo with “Reading Battery Data” below it.
- After bootup, the battery state-of-charge will appear.
- If the AC load on the PowerDock is less than 10W, the meter will read “No Load”.
- Once a load greater than 10W is applied, the meter will read “Calculating Runtime”. The meter then collects power consumption data for up to 5 minutes.
- The “Runtime Remaining” countdown will then appear in the middle of the screen. The background of the screen will now reflect the duration of runtime remaining.
- To access additional battery data, press the green button once. To return to the Runtime Screen press the green button once more.

BATTERY CHARGE STATES

BATTERY CHARGE STATE: GREEN

When the battery is more than 66% charged, the battery icon will appear green.



MORE THAN
66%
CHARGED

BATTERY CHARGE STATE: YELLOW

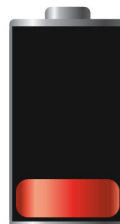
When the battery is between 33% and 66% charged, the battery icon will appear yellow.



33-66%
CHARGED

BATTERY CHARGE STATE: RED

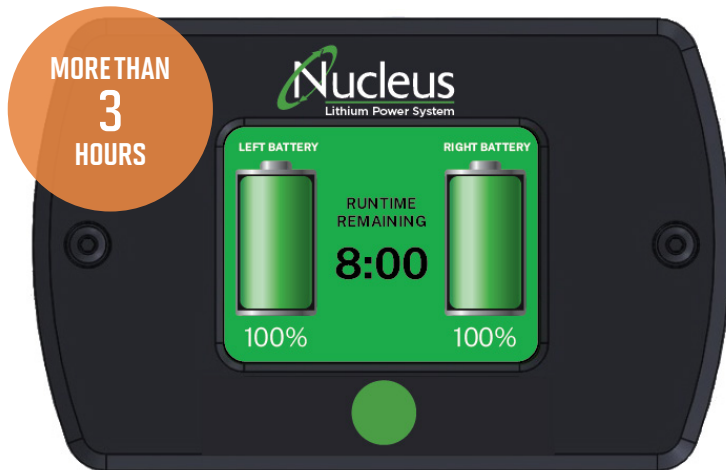
When the battery is less than 33% charged, the battery icon will appear red.



LESS THAN
33%
CHARGED

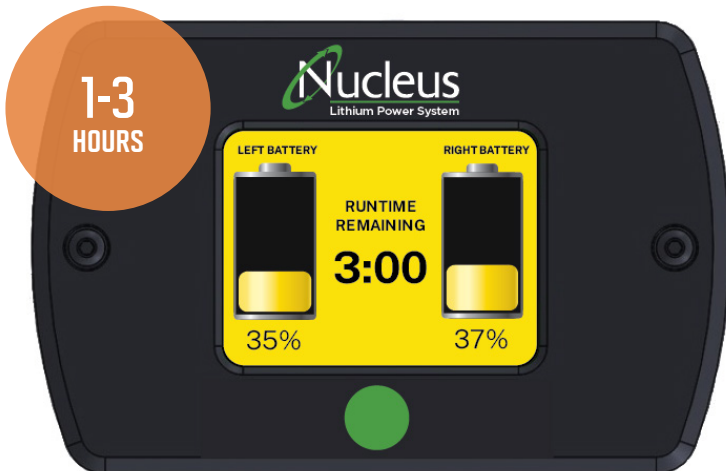


BATTERY RUNTIME STATES



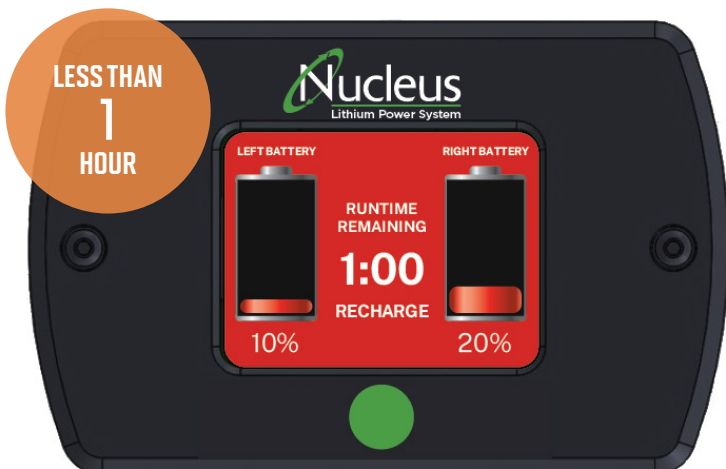
RUNTIME STATE: GREEN

When the duration of runtime remaining is more than 3 hours, the screen background will appear green.



RUNTIME STATE: YELLOW

When the duration of runtime remaining is 1-3 hours, the screen background will appear yellow.



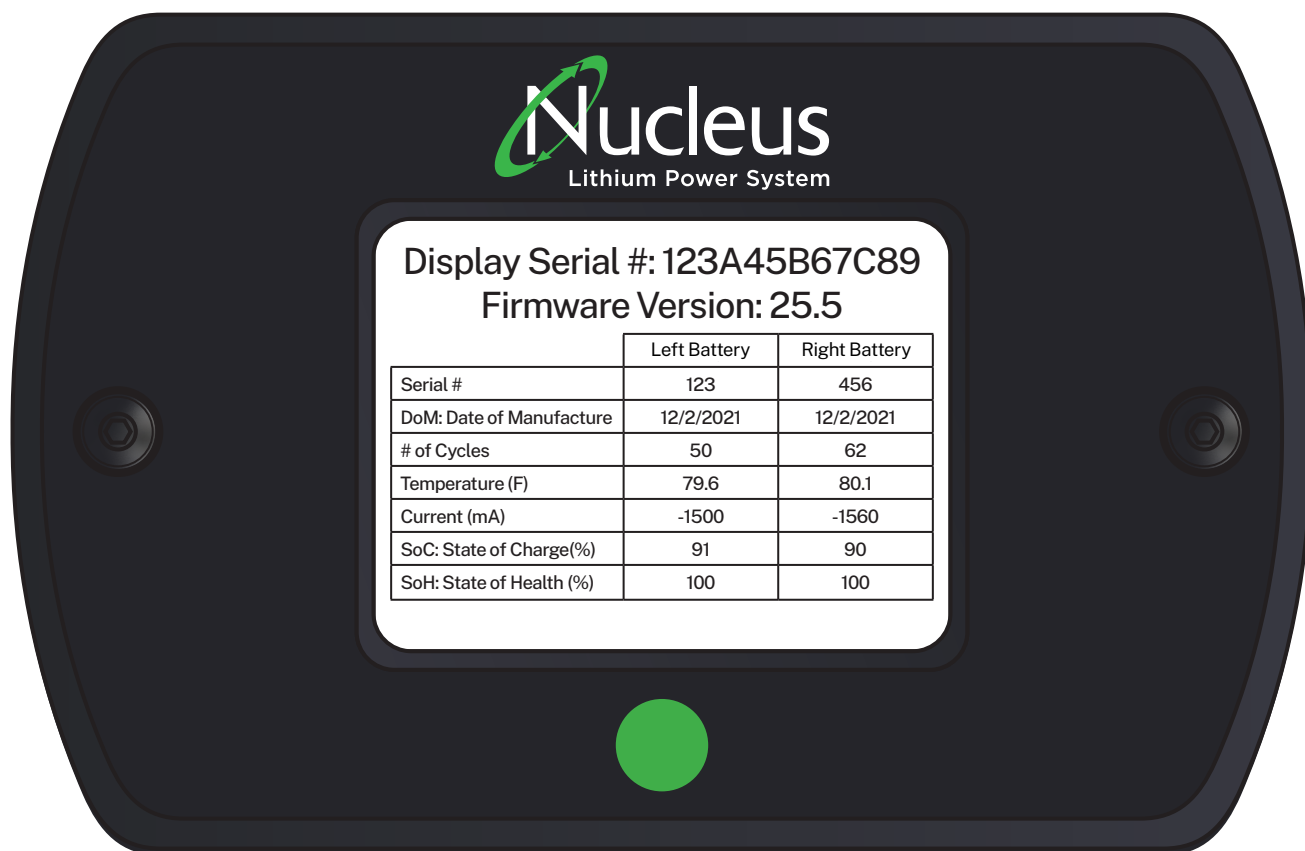
RUNTIME STATE: RED

When the duration of runtime remaining is less than 1 hour, the screen background will appear red.



ADDITIONAL DATA

The data shown is in the image below.



EXPLANATION OF DATA

SERIAL #	Unique serial number for your Nucleus® battery
DOM: DATE OF MANUFACTURE	Date your battery was manufactured
# OF CYCLES	Number of discharge cycles the battery has experienced
TEMPERATURE (F)	Current temperature of your battery. Battery runs hotter than ambient
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
SOH: STATE OF HEALTH (%)	Current full-charge battery capacity divided by original capacity