

FREEDOM WON – TRADE IN PROCEDURE



Can I trade in my Lite for a larger model?

A first in the industry brought to you by Freedom Won and SEGEN!

Freedom Won is able to place a very accurate value on used Lite's because of extensive information collected by the BMS as to the service life consumed and remaining.

This means you will obtain a very fair value on a trade in for a larger model.



Process to follow to obtain a trade-in:

1. The customer notifies Segen of his intention to trade in a Lite battery, providing the following information.
 - a. Photos of the battery still on site to allow for a pre-condition inspection
 - b. Battery Serial Number
 - c. Pack Cycle Count
2. Once information is supplied, Freedom Won will provide an estimated value for the trade in
3. Preliminary valuation of the trade-in is provided to Customer and upon acceptance the further steps are followed
4. Customer delivers unit to one of the SEGEN main centres in Johannesburg or Cape Town for onward forwarding to Freedom Won
5. Freedom Won does a final inspection and validates the initial information supplied resulting in approval of the Trade in.

Trade in valuation methodology

- Degradation of 10% post the 2nd year
- First year of degradation is calculated at 20%

The guarantee period begins at the date of the final invoice from SEGEN

TRADE IN VALUE FORMULA

$$\begin{aligned} \text{FW2021-22732 FW Cycles} &= \text{Orion Cycles}/2 \times 0.8 \\ &= (110/2) \times 0.8 = 44 \end{aligned}$$

FW2021-116522

$$\text{FW Cycles} = \text{Orion Cycles}/2 \times 0.8 = (189/2) \times 0.8 = 75,6$$



Upgrading Cable

Lite Range

- Use the Printer cable came with the battery
- Orion Jr Tool



E-Tower

- Use the Rs232 interface RJ11 cable
- PBMS Tool



PBMS TOOL

PbmsTools V2.5FN

Realtime Monitoring | Multi Monitoring | Memory Info. | Parameter Setting | System Config. | Export Datas

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15

Pack Information

Pack Voltage	54.225	V
Pack Current	0.00	A
SOC	4	%
SOH	100	%
RemainCapacity	3930	mAH
FullCapacity	103480	mAH
Battery Cycle	138	

Temperature

Tcell 1	17.0	°C	Tcell 2	17.2	°C
Tcell 3	16.7	°C	Tcell 4	17.4	°C
MOS_T	17.4	°C	ENV_T	17.4	°C

Serial Port

Port: COM3 | Baud Rate: 9600 | Auto Display

Pack: 1 | Pack Qty: 1 | **Close**

ADDR: 0 | Interval(S): 1 | **Try Connect**

System Status

CHARGING-OFF
 CHARGING
 CHG-LIMIT-OFF
 ACin
 DISCHARGING-ON
 DISCHARGING
 HEATER-OFF
 Fully

Alarm Status

Cell OV, SOC Low

Protect Status

Cell OVP

Fault Status

None

Switch Control

CHG Circuit: **Open** Sound Alarm: **Open** CHG Limiter: **Close**
 DSG Circuit: **Close** LED Alarm: **Close** Shutdown: **Off**

Password: ***** | **Change** | **Clear**

Cell Voltage(mV)

MaxVolt: 12 | 3392 | MinVolt: 3 | 3383 | VoltDiff: 9

Vcell 1	3389	Vcell 9	3390
Vcell 2	3391	Vcell 10	3390
Vcell 3	3383	Vcell 11	3390
Vcell 4	3391	Vcell 12	3392
Vcell 5	3383	Vcell 13	3390
Vcell 6	3389	Vcell 14	3389
Vcell 7	3390	Vcell 15	3389
Vcell 8	3391	Vcell 16	3388

VER: P16S100A-15040-5. 01 | BMS S/N: 150404122901343Z | PACK S/N: ET2022-009360 | COMM: Normal




12:58:13
2023/08/15

Orion Jr TOOL

Live Graph & Data Logging Live Cell Data Live CANBUS Traffic Histogram & Events

Live Parameters

Parameter	Value	Unit	Parameter	Value	Unit
Pack State of Health (SOH)	99.0	%	Multi-Purpose Output 3 Active	OFF	
Pack Depth of Discharge (DOD)	4.5	%	Multi-Purpose Output 4 Active	OFF	
Pack State of Charge (SOC)	95.0	%	Multi-Purpose Enable Active	OFF	
Pack Amp-hours	92.1	Ahr	Is Pack Balancing	NO	
Observed State of Charge	94.5	%	CANBUS 1 Errors Present	NO	
Observed Total Capacity	94.0	Ahr	Cell Comm Fault Flags	0.0	
Observed Amphours	89.2	Ahr	Cell Balancing Count	0.0	
Observed Previous Capacity	91.9	Ahr	Charge Float Voltage	55.8	V
Total Pack Cycles	110.0	#			
Pack Resistance	0.008	Ohms			
Pack Open-Circuit Voltage	53.9	V			
Is-Charging Power Status	ON				
Multi-Purpose Input Status	OFF				
Charge-Enable Output Active	OFF				
Discharge-Enable Output Active	ON				
Charger-Safety Output Active	ON				
Errors Present	NO				
Multi-Purpose Output Active	ON				
Multi-Purpose Output 2 Active	OFF				

Selected Parameter Group:

Show Active Commands Export Live Parameters Help

Cells: 16 (16) CAN#: N/A Trouble Codes Detected: 0 Profile Checksum: 9F55

SOP Example of a Trade in Enquiry

Event Details [Edit](#)

Event: Technical Enquiry
Sub Type: Freedom Won Trade In
User: Lebea Mabogale
Contact: [Sphamandla Dlamini - Jentec Power Solutions Pty Ltd](#)
Project: [JePV01043](#)

Priority: High
Technical Enquiry Number: 107281
Date: 18/04/2023 13:21:00
Status: Completed
Product: [F-WON-L-HOME-5-4-N Freedom Won Lite Home 5/4 LiFePO4 Battery N](#)

Resolution:
Subject: 18/04 LM - Closing request, to continue once customer is ready to trade.

Comment: 17/04 LM - customer promised to give feedback later today, if no answer is received by COB 18/04 still ticket will be closed. 06/04 LM -Preliminary trade in value received, sent to customer. From: Christopher Francis Sent: Thursday, April 6, 2023 7:51 AM To: Motlatsi Motimele
 Subject: RE: Trade-in request: Ticket #7031 (FW2021-22732 and FW2021-16522) Good Morning Mo I hope you are well, The preliminary trade in value for these units is R19 308.80 Kind Regards, From: Freedom Won SA Sent: Thursday, March 30, 2023 3:58 PM To: Lebea Mabogale Subject: Re: Trade-in request: Ticket #7031 (FW2021-22732 and FW2021-16522) Hi Lebea Mabogale, I hope you well, for you to proceed with trade in. please see the formular and the calculation below. please send this to your freedomwon key account manager.
 FW2021-22732 FW Cycles = Orion Cycles/2x0.8 =(110/2)0.8 =44 FW2021-116522 FW Cycles = Orion Cycles/2x0.8 =(189/2)0.8 =75.6 Kind Regards, SX 29/03 Hi Nozi. Please see the attached images of the following for a Freedom Won Trade-in request: - Photos of serial number (FW2021-16522 and FW2021-22732) - Cycles of Battery for both batteries The end user would like to enter the process of trading in. Please assist. Please contact Sphamandla if you have any questions (Cell 068 360 7946 and email spha@jengroup.co.za)

Share With Contact 0 **Share With Account** 0

Notes:
 0.15 seconds

Uploaded Documents
[20221124_112824.jpg](#)
[20221124_112841.jpg](#)
[20230322_155109.jpg](#)
[20230322_154825.jpg](#)

Created By Sisa Xolo 29/03/2023 14:50:27 SAST

Modified By Lebea Mabogale 18/04/2023 14:27:16 SAST

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Account Competencies for Manufacturers on This Order

Manufacturer	Score	Shipments	Returns	Issues	Comment	By	Date
Freedom Won	4	0	0	1	No experience with the product at all but has installed similar products for same application more than a handful of times, no known issues	Daniel Mathebula	18/01/2022 09:02:57 Delete

To update a competency for this account click on the manufacturer name above or to add a new competency select the manufacturer from the list below and press "Add Competency".

<- Select Manufacturer -> [Add Competency](#)

Related Activities

Event	Status	Date	User Name	Subject	Comment	Item Call
					Dear Sphamandla Dlamini I hope you are well. The preliminary trade in value for these units is R19 308.80. Please advise if you want to continue with the trade in process. Thank you	

Thank you for your attention.

