Brandt



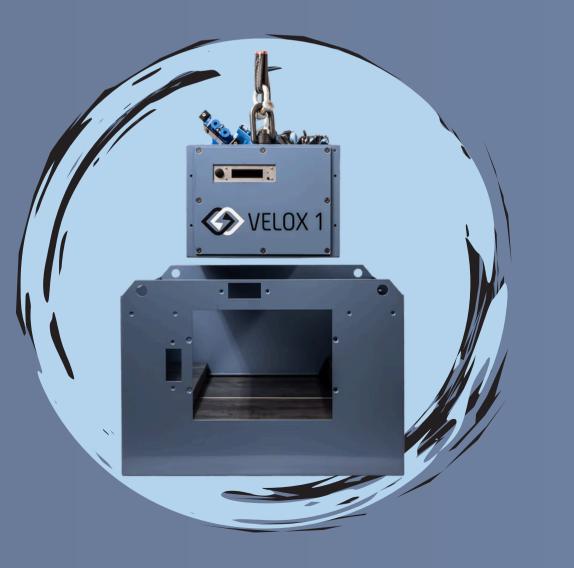
Scope: Brandt Doosan B20T-2

VELOX

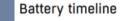
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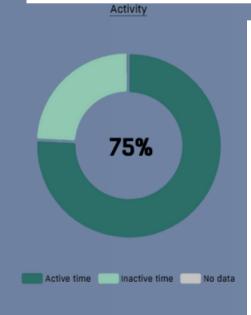
Modular

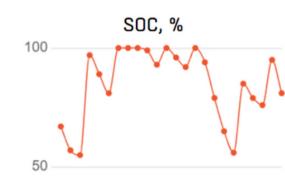












2

0

Omni Station 5



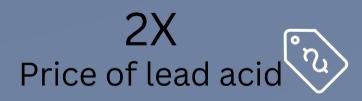
VELOXEBOX SERIES

VELOXFlex

12h/Day (Motor hours

300A 5-95% under 72 minutes

4000 Cycles 80% DoD, 25C°



eBox System (=) Interchangeable

VeloxPower Cloud Connectivity

VELOXPlus

20h/Day Motor hours

400A 5-95% under 60 minutes

6000 Cycles 80% DoD, 25C°

4X Price of lead acid

eBox System (=) Interchangeable

VeloxPower Cloud Connectivity

VELOXMax 22h/Day Motor hours

1200A 5-95% under 30 minutes

5000 Cycles 80% DoD, 25C°



eBox System Interchangeable

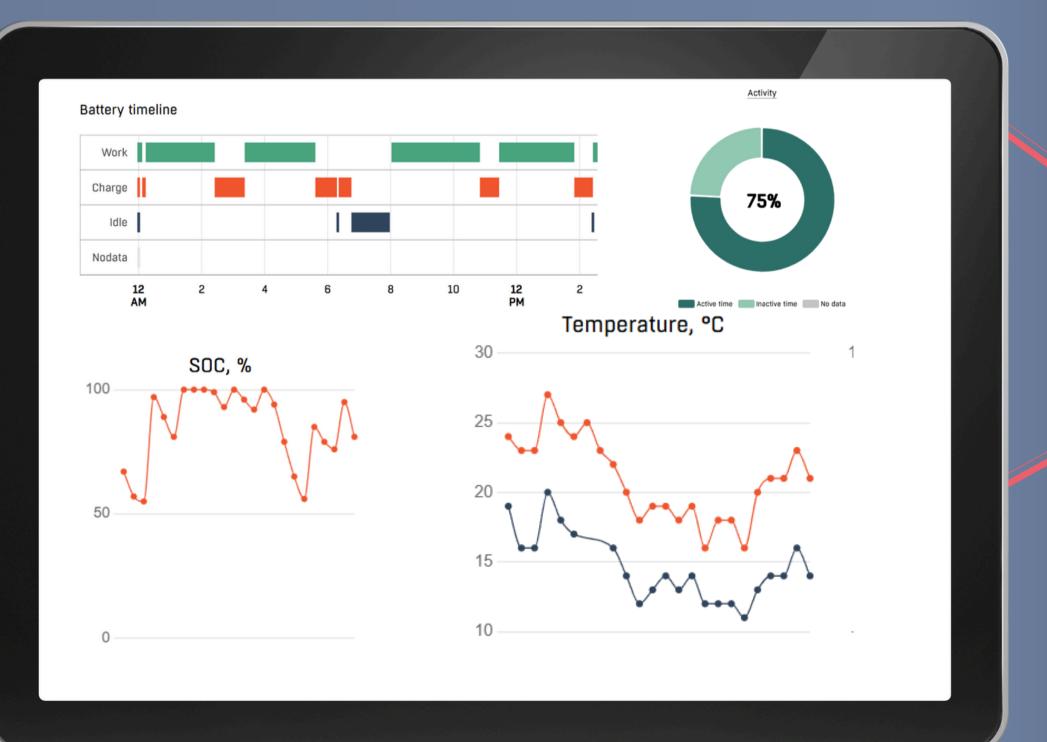
VeloxPower Cloud Connectivity





Interactive interface Real time data YOU Track usage and error codes SOC, Temps, work and idle time

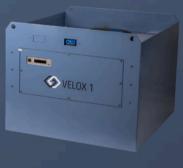
VELOXECOSYSTEM YOUR FUTURE-READY FORKLIFT ENERGY ECOSYSTEM s ime VELOX power.cloud VELOX power.cloud VELOX power.cloud Take control of Your ForkLift power 🖘





MONITOR FLEETS Create fleets	S
MAX POWER	S
OTA UPDATES	CYC
VeloxPlus updates via OTA	R

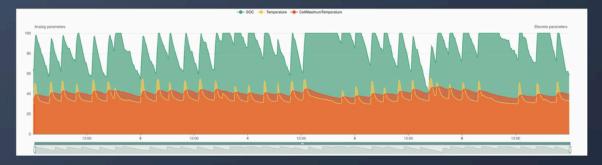




GENERAL OVERVIEW



ADVANCED PLOTS



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Errors in real time

Undervoltage

Undervoltage

Undervoltage

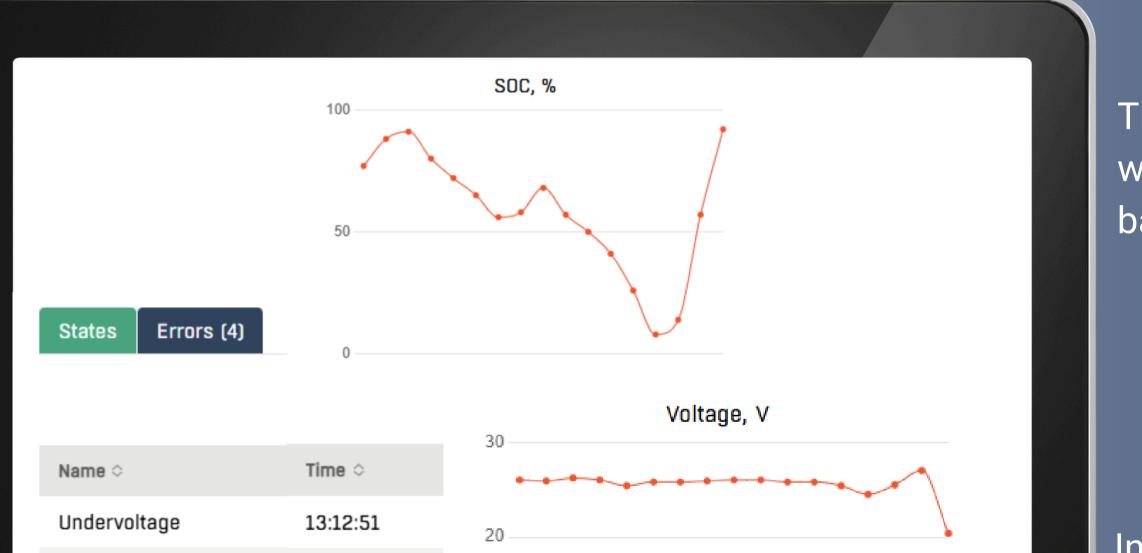
Undervoltage

13:19:49

13:31:34

13:32:41

VELOXECOSYSTEM YOUR FUTURE-READY FORKLIFT ENERGY ECOSYSTEM



10

In the event of an error, a record is automatically done on the VeloxCloud, allowing us to accurately identify both the time and root cause.

This example reflects a real-world case where the user overlooked charging the battery during a scheduled break.

VeloxCompact



Multi-Voltage OUT 24/48Vdc Voltage IN 3×600 **500A Connector** Anti-Arcing included **4-Year Warranty** Included Wall mount Included

VELOX 1

Omni Station



Multi-Voltage OUT 24/80Vdc Mulyi-Voltage IN 3×600/480 **500A Connector** Anti-Arcing included **10-Year Warranty** Included **Floor Stand** Included **Cable Retractor** Included



VELOXECOSYSTEM YOUR FUTURE-READY FORKLIFT ENERGY ECOSYSTEM Applied energy

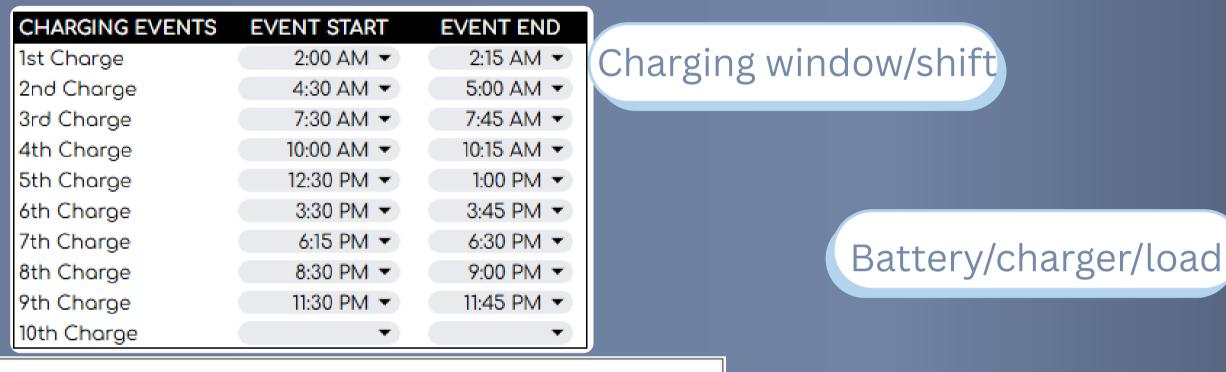
Charge time 20% - 80% 2 hours and 30 minutes Useable Capacity 600 Ah Efficiency 60%

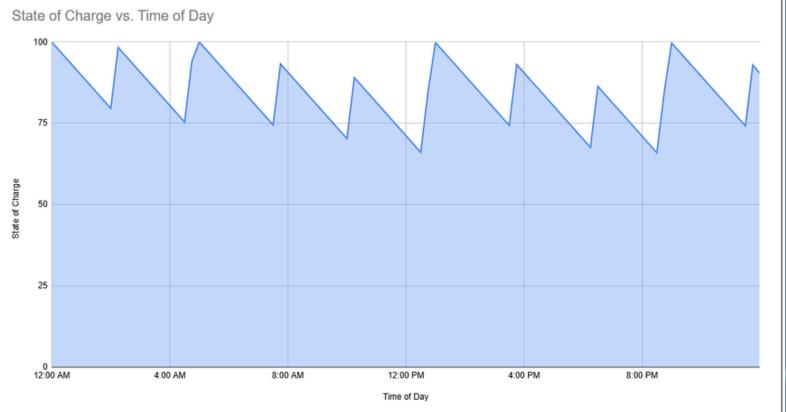


Charge time 5% - 95% 60 minutes Useable Capacity 500 Ah Efficiency 95%

Work simulation

3 shifts, 60 minutes charge/shift, Doosan B20T-2





Charge time

Energy consumption

Simulation 1

5h45 motor per shift = 400Ah + 300A charger = VeloxFlex

BATTERY & CHARGER INFO		
Battery Capacity (AH)	400	
Truck Load (A/hm)	48	
Truck Efficiency (%)	85%	
Charger Current (A)	300	
Charging Efficiency (%)	80%	
Start SOC (%)	100%	
Day Start Time	12:00 AM 👻	

CHARGING EVENTS	EVENT LENGTH
1st Charge	0:15
2nd Charge	0:30
3rd Charge	0:15
4th Charge	0:15
5th Charge	0:30
6th Charge	0:15
7th Charge	0:15
8th Charge	0:30
9th Charge	0:15
10th Charge	0:00
	3:00

Conclusion

This simulation is based on a 3 shifts work day. Charges are made during breaks (15 minutes) and
 lunch/diner time (30 minutes). Total of 60 minutes of charge per shift.
 This set up allows the lift truck to work <u>5 h 45</u> minutes per shift.
 This is equal to roughly 4,485 motor hours a year. This number is based on a 5 days work week schedule.

✓ Doosan B20T-2

- Battery VeloxPlus <u>400Ah</u>
- Charger Compact <u>300A</u>



This simulation works only with this specific charging set up. A charger with an output **lower** than 300A will not be able to charge the battery correctly.

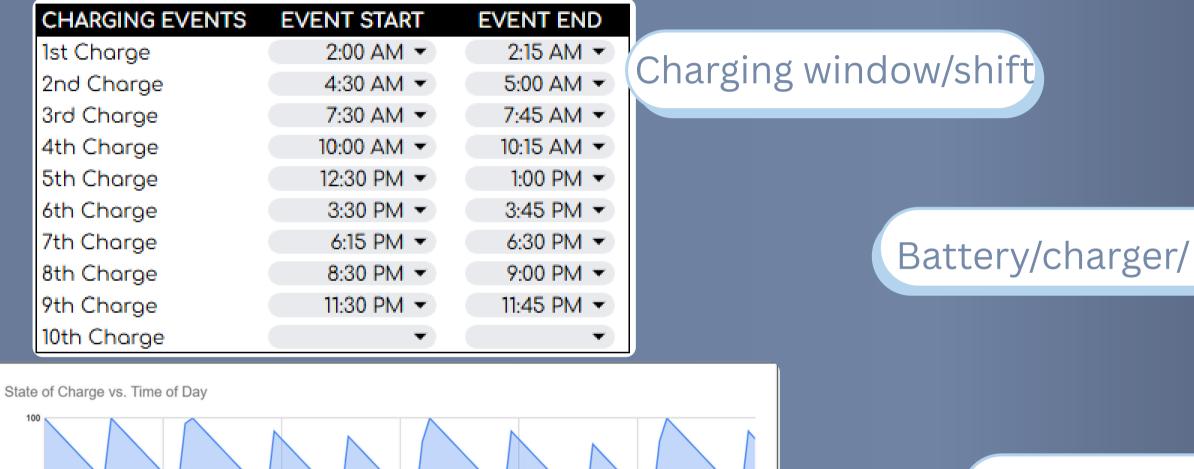
Simulation 1

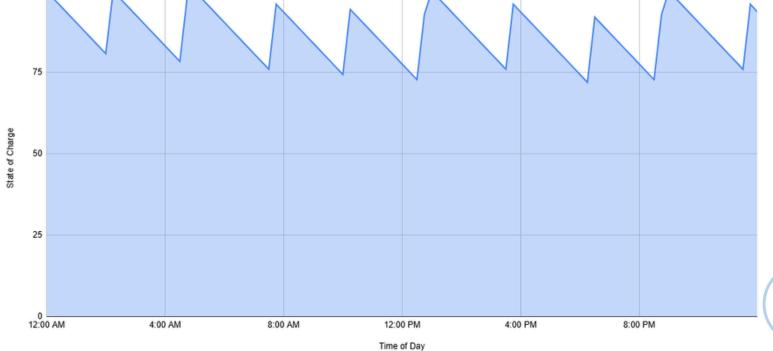


VELOXECOSYSTEM Work simulation YOUR FUTURE-READY FORKLIFT ENERGY ECOSYSTEM

Energy consumption

3 shifts, 60 minutes charge/shift, Doosan B20T-2





Simulation 2

7h00 motor per shift = 500Ah + 400A charger = VeloxPlus

	BATTERY & CHARGER INFO		
	Battery Capacity (AH)	500	
	Truck Load (A/hm)	48	
	Truck Efficiency (%)	100%	
	Charger Current (A)	400	
bordorllood	Charging Efficiency (%)	80%	
harger/load	Start SOC (%)	100%	
	Day Start Time	12:00 AM 👻	
	CHARGING EVENTS	EVENT LENGTH	
	1st Charge	0:15	
	2nd Charge	0:30	
Charge time	3rd Charge	0:15	
0	4th Charge	0:15	
	5th Charge	0:30	
	6th Charge	0:15	
	7th Charge	0:15	
	8th Charge	0:30	
ation	9th Charge	0:15	
otion	10th Charge	0:00	
		3:00	

Conclusion

This simulation is based on a 3 shifts work day. Charges are made during breaks (15 minutes) and lunch/diner time (30 minutes). Total of 60 minutes of charge per shift. This set up allows the lift truck to work <u>7 hours</u> per shift. This is equal to roughly 5,460 motor hours a year. This number is based on a 5 days work week schedule.

Doosan B20T-2
 Battery VeloxPlus <u>500Ah</u>
 Charger Omni <u>400A</u>



This simulation works only with this specific charging set up. A charger with an output **lower** than 400A will not be able to charge the battery correctly.

Simulation 2



Work simulation

12:00 AM

4:00 AM

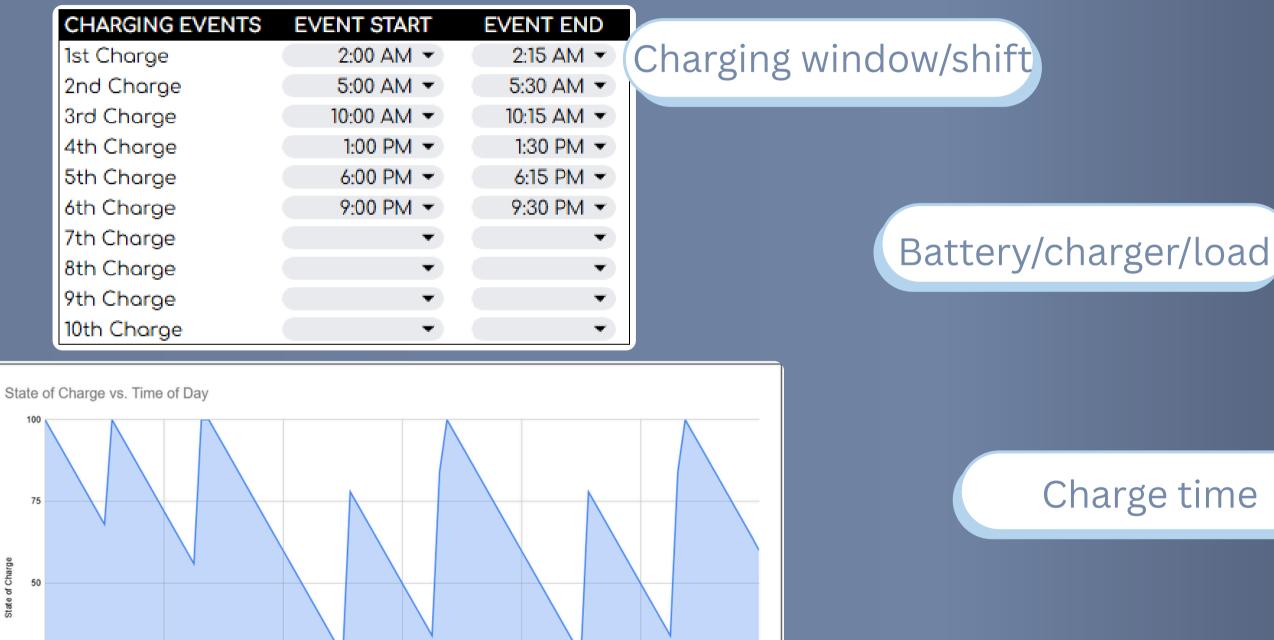
8:00 AM

12:00 PM

Time of Day

4:00 PM

3 shifts, 45 minutes charge/shift, Doosan B20T-2



8:00 PM

Energy consumption

Simulation 3

7h15 motor per shift = 300Ah + 600A charger = VeloxMax

BATTERY & CHARGER INFO		
Battery Capacity (AH)	300	
Truck Load (A/hm)	48	
Truck Efficiency (%)	100%	
Charger Current (A)	600	
Charging Efficiency (%)	80%	
Start SOC (%)	100%	
Day Start Time	12:00 AM 👻	

CHARGING EVENTS	EVENT LENGTH
1st Charge	0:15
2nd Charge	0:30
3rd Charge	0:15
4th Charge	0:30
5th Charge	0:15
6th Charge	0:30
7th Charge	0:00
8th Charge	0:00
9th Charge	0:00
10th Charge	0:00
	2:15

Conclusion



This simulation is based on a 3 shifts work day. Charges are made during breaks (15 minutes) and lunch/diner time (30 minutes). Total of 45 minutes of charge per shift. This set up allows the lift truck to work <u>7 hours</u> per shift. This is equal to roughly 5,655 motor hours a year. This number is based on a 5 days work week schedule.

Doosan B20T-2
 Battery VeloxMax <u>300Ah</u>
 Charger Omni <u>600A</u>



This simulation works only with this specific charging set up. A charger with an output **lower** than 600A will not be able to charge the battery correctly.

Simulation 3

