

DATASHEET

SONNENSCHN LITHIUM

MATERIAL HANDLING TRAY BATTERIES



GNB's new Sonnenschein Lithium Material Handling Batteries were designed to match your demands. With a clear focus on enhancing your fleet's runtime and optimizing total cost of ownership, they keep your business up and running. With one fully charged Sonnenschein Lithium Material Handling Battery, you can enjoy up to 33% more pallet movements compared to other available systems!



TRADITIONAL VOLTAGE	NOMINAL VOLTAGE	CAPACITY [AH]	ENERGY CONTENT [KWH]	CONSTANT DISCHARGE CURRENT [A]*	RECOMMENDED GNB CHARGER CURRENT [A]	MAXIMUM** GNB CHARGER CURRENT [A]
24	25.7	125	3.2	90	60	90
		188	4.8	130	90	130
		251	6.5	170	120	170
		314	8.1	220	150	220
		376	9.7	260	180	260
		439	11.3	300	220	300
		502	12.9	350	250	350
		564	14.5	400	280	400
		627	16.1	440	310	400
48	51.4	125	6.4	90	60	90
		188	9.7	130	90	130
		251	12.9	170	120	170
		314	16.1	220	150	220
		376	19.3	260	180	260
		439	22.6	300	220	300
		502	25.8	350	250	350
		564	29.0	400	280	400
		627	32.2	440	310	400
80	77.1	690	35.5	480	350	400
		752	38.7	520	370	400
		125	9.6	90	60	90
		188	14.5	130	90	130
		251	19.4	170	120	170
		314	24.2	220	150	220
		376	29.0	260	180	260
		439	33.8	300	220	300
		502	38.7	350	250	350
		564	43.5	400	280	400
		627	48.3	440	310	400
		690	53.2	480	350	400
		752	58.0	520	370	400
		815	62.8	570	400	400
		878	67.7	610	400	400
941	72.6	630	400	400		
1003	77.3	630	400	400		
1066	82.2	710	400	400		
1129	87.0	710	400	400		
1191	91.8	710	400	400		
1254	96.7	710	400	400		

* Maximum Continuous Discharge Current limited by the system fuse. Please consult with your Applications Engineer if you are unsure or have different requirements.

** Maximum GNB Charger Current: Please consult with your Applications Engineer before using this charge level.

System Voltage Ranges in Volts

SYSTEM	MIN	NOMINAL	MAX
24V	22.4	25.7	28.7
48V	44.8	51.4	57.4
80V	67.2	77.1	86.1

SPECIFICATION

Features

- 3800 Cycles at 80% DOD
- IP 54 rated
- Discharge temperature -20°C + 60°C
- Charge temperature 0°C to 50°C
- Storage temperature -20°C to 60°C
- Communication : CAN Bus (CANOpen, CAN2.0B, etc.)
- Full charge in less than 1H 30 minutes
- All below standard batteries are available with Easy Charge

System Consists of

- Steel Powder Coated Tray
- Counterbalance
- External display (optional)
- Integrated Data Logger
- Retrofitting Communicator (optional) allowing to use vehicles's internal displays
- Easy Charge (optional) for charging without disconnecting the vehicle

Available MHB Standard Lithium-Ion Trays

Batteries are equipped with either 0.8m, 1.1m or 1.5m cable to vehicle length and REMA 160A or 320A plug. Other cable lengths and plugs are available on demand.



TRADITIONAL VOLTAGE	VOLTAGE / CAPACITY			DIMENSIONS AND WEIGHTS				CHARGING****
	VOTAGE (V)	CAPACITY (AH)	CAPACITY (KWH)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHTH*** (KG)	RECOMMENDED GNB CHARGER CURRENT (A)
24	25,7	188	4,8	621	209	537	187	90
	25,7	188	4,8	621	209	627	174	90
	25,7	251	6,5	621	209	627	212	110
	25,7	251	6,5	621	281	627	290	110
	25,7	251	6,5	621	281	537	240	110
	25,7	376	9,7	621	353	627	375	150
48	51,4	314	16,1	827	411	627	560	150
	51,4	376	19,3	827	519	627	710	200
	51,4	376	19,3	832	415	784	738	200
	51,4	439	22,6	1027	526	627	862	200
	51,4	502	25,8	827	627	627	870	200
	51,4	564	29,0	1220	352	784	930	260
	51,4	564	29,0	1220	424	784	1100	260
	51,4	627	32,2	827	735	627	1045	260

*** Actual weight may differ by ±5%

**** For Max. charge/discharge current , please consult with your Applications Engineer to confirm the correct value.

- European headquarters
- Manufacturing plants
- Recycling plants
- Distribution centers
- Main sales offices
- R&D centres

Manufacturing plants ISO 9001 and ISO 14001 certified
Automotive plants IATF 16949 approved

