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BATTERY APPLICATIONS

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Applications

	Passenger coaches and railcars (mainline transport)	Diesel locomotives
Main task: Securing and support for	▪ Train lighting ▪ Control voltage ▪ Safety technology ▪ General supply	▪ Starting diesel engines ▪ Control voltage ▪ Safety technology
Load type	Partly cyclical load with average to high depths of discharge	Partly cyclical load with low to average depths of discharge

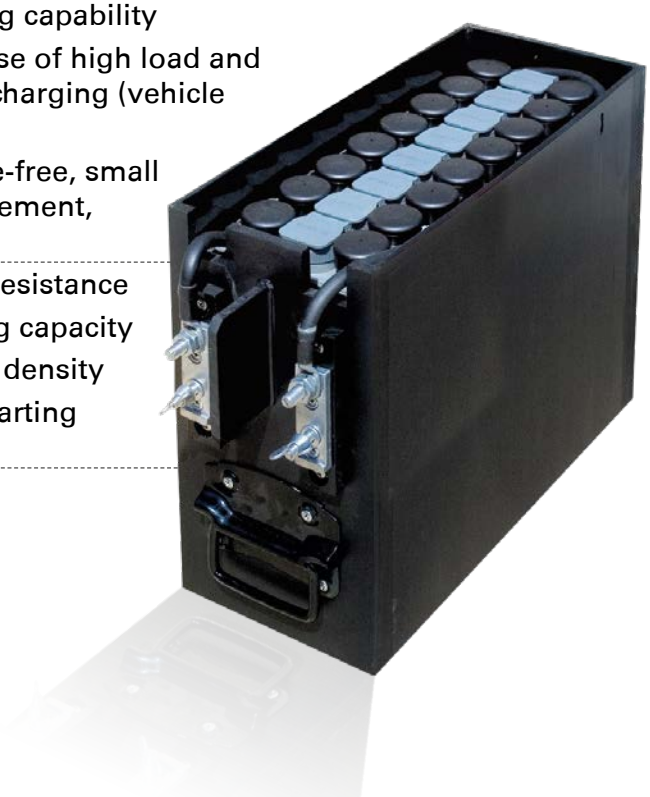
Battery system

PzS cell 40 - 550 Ah	▪ Very suitable under most operating conditions ▪ 4 - 8 year life	▪ Adequately good staring capability for 110V on-board power supply system ▪ Good cycle resistance ▪ 3 - 6 year life
PzV cell 50 - 550 Ah	▪ Good suitability for vehicles with central power supply with low and average power throughputs ▪ 4 - 6 year life	Conditionally suitable
Sealed block batteries (Gel / AGM) 42 - 190 Ah 12 V / 6 V	▪ For vehicles with central power supply with low power throughputs ▪ 3 - 5 year life	▪ Good cold start suitability, including for 24 V on-board power supply system ▪ Significantly better cyclical loadability and life than with starter or GiS batteries ▪ 2 - 4 year life
Pure lead 58 - 190 Ah 12 V / 6 V	▪ High capacities ▪ Maintenance-free and low weight	▪ Very good cycle resistance and particularly good starting properties ▪ Maintenance-free and low weight

GW Batterien GmbH is a longstanding partner of renowned rail vehicle operators and manufacturers. Only tested and proven products are used.

ALL-CERT DIN EN ISO 14001
DIN EN ISO 9001

Electric locomotives	Local transport vehicles (Light vehicles)
▪ Control voltage ▪ Safety technology	▪ Train lighting of railcars ▪ Control voltage ▪ Safety technology ▪ Starting diesel engines
Low partly cyclical load with low to average depths of discharge	Partly cyclical load with low to very high depths of discharge for regional railcars (high service lives and short charging times)
Due to the relatively low power throughputs, very long life of 6 - 8 years	▪ Long life, even with high power throughput ▪ Poor starter properties, if necessary use separate starter battery
▪ Very suitable ▪ 4 - 8 year life	Only recommended for low and average power throughput
▪ Very good suitability due to low maintenance requirements ▪ Low weight ▪ 4 - 6 year life	▪ Lower cycle resistance ▪ Life highly dependent on vehicle type and use profile ▪ Good starting capability ▪ Critical in case of high load and inadequate charging (vehicle turnaround) ▪ Maintenance-free, small space requirement, low weight
▪ Good cycle resistance and fast charging capacity ▪ High energy density	▪ Good cycle resistance ▪ Fast charging capacity ▪ High energy density ▪ Very good starting capability



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