



## PerfectRail™ DS Batteries: Technical Data

### RECHARGEABLE LEAD ACID BATTERIES FOR ROLLING STOCK APPLICATIONS

PerfectRail™ Diesel Starter range of 12-Volt flooded batteries are suitable for engine starts and a source of on-board power for a wide range of rail vehicles.

PerfectRail™ batteries grid technology offers superior reliability that you can depend on for consistent performance.

The PerfectRail™ Diesel Starter batteries are manufactured using the very highest quality raw materials combined with state-of-the-art manufacturing equipment and processes. They are designed with quality in mind to boost your energy when you need it the most.

- **100% Recyclability:** Easily and widely recyclable, contributing to a greener, more sustainable environment.
- **Shock Resistant:** Built to endure the harshest rail environments, providing reliable performance under the toughest conditions.
- **Low Maintenance:** Designed for worry-free operations, allowing you to focus on your journey with minimal upkeep.



# PerfectRail™ DS

BATTERIES

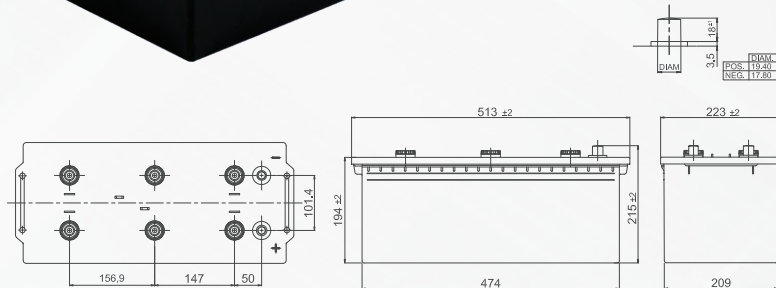
KEEPING YOU ON TRACK





# PerfectRail™ DS

## 12V180HD BATTERIES



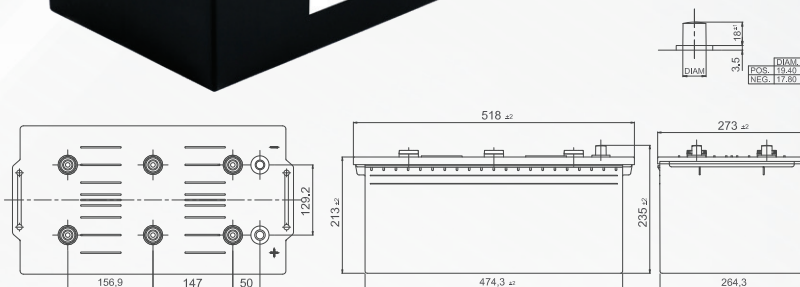
### 12V 180HD - Technical Data

Technology	Pb-Sb Technology
Grid Alloy	Pb-1.7% Sb/Pb-1.7% Sb
Nominal Voltage	12 V
Charging Voltage	14.25 +/- 0.25 V
Nominal Capacity C <sub>20</sub>	179 Ah
Nominal Capacity C <sub>10</sub>	158 Ah
Nominal Capacity C <sub>5</sub>	149 Ah
Nominal Capacity C <sub>1</sub>	119 Ah
CCA (S.A.E.)	970 A
CCA (EN)	990 A
Operating Temperature	-15°C to +40°C
Internal Resistance	0.0054 Ω
Weight filled & charged	45 kg
Weight dry charged	32.8 kg
Electrolyte weight	12.3 kg
Electrolyte density	1.29 g/cm at 25°C
Electrolyte volume	9.5 l
Test Standard	EN 50342



# PerfectRail™ DS

## 12V235HD BATTERIES



### 12V 235HD - Technical Data

Technology	Pb-Sb Technology
Grid Alloy	Pb-1.7% Sb/Pb-1.7% Sb
Nominal Voltage	12 V
Charging Voltage	14.25 +/- 0.25 V
Nominal Capacity C <sub>20</sub>	233 Ah
Nominal Capacity C <sub>10</sub>	195 Ah
Nominal Capacity C <sub>5</sub>	184 Ah
Nominal Capacity C <sub>1</sub>	148 Ah
CCA (S.A.E.)	1050 A
CCA (EN)	1100 A
Operating Temperature	-15°C to +40°C
Internal Resistance	0.0047 Ω
Weight filled & charged	55.8 kg
Weight dry charged	40.4 kg
Electrolyte weight	15.5 kg
Electrolyte density	1.29 g/cm at 25°C
Electrolyte volume	12.0 l
Test Standard	EN 50342

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 EMEA-EN-TD-PR-DS-0924

