



ZeMaRail™ DS Batteries: Technical Data

MAINTENANCE-FREE TPPL AGM TECHNOLOGY FOR ROLLING STOCK APPLICATIONS

ZeMaRail™ Diesel Starter batteries combine excellent starting power with exceptional performance. EnerSys® Thin Plate Pure Lead (TPPL) technology with 99.99% purity lead-tin plates and featuring advanced absorbed glass mat (AGM) separators, deliver exceptional power.

The internal elements are specifically designed to withstand extreme levels of shock and vibration ensuring greater efficiency and longer life in demanding applications.

The ZeMaRail™ Diesel Starter battery is designed with quality in mind to boost your energy, when you need it the most.

- Reliable and long-lasting energy for your rail operations.
- Capable of starting at operational temperatures down to -40°C.
- Rapid recharge in less than 4 hours.

HAWKER ZeMaRail™ DS BATTERIES

KEEPING YOU ON TRACK



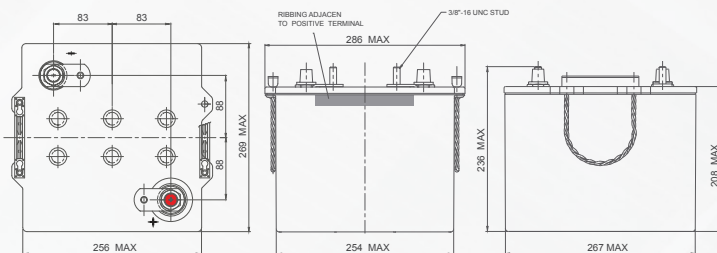


ZeMaRail™ DS

12V126 BATTERIES



- * TPPL: Thin Plate Pure Lead
- * AGM: Absorbed Glass Mat
- * VRLA: Valve Regulated Lead Acid
- ** Refresh charge required when OCV is less than 2.10Vpc



12V126 - Technical Data

Technology	*TPPL / *AGM / *VRLA
Nominal Voltage	12 V
Charging Voltage	14.4 V @ 20 °C
Float Voltage	13.74 V @ 20 °C
Nominal Capacity C ₂₀	126 Ah
Nominal Capacity C ₁₀	114 Ah
CCA (EN)	1225 A
Internal Resistance	2,1 mΩ
Operating Temperature range	-40 °C to +50 °C
Short Circuit Current	5000A
Weight	39 kg
Storage	60 Months**
Storage at 25°C without recharge	24 Months
Terminals	DIN Terminal and 3/8" Stud (11.0 Nm Stud only)
Service life	3 to 10 Years
Flame retardancy class	LUPOY GN5001RFN I3 / F2 (NF F 16-101)

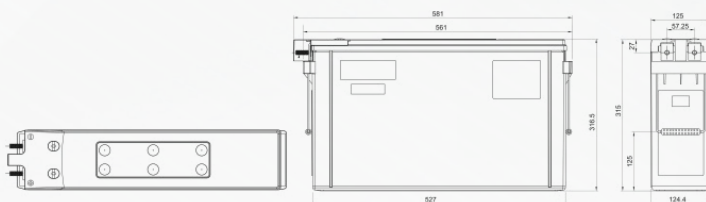


ZeMaRail™ DS

12V214 BATTERIES



- * TPPL: Thin Plate Pure Lead
- * AGM: Absorbed Glass Mat
- * VRLA: Valve Regulated Lead Acid
- ** Refresh charge required when OCV is less than 2.10Vpc



12V214 - Technical Data

Technology	*TPPL / *AGM / *VRLA
Nominal Voltage	12 V
Charging Voltage	14.4 V @ 20 °C
Float Voltage	13.74 V @ 20 °C
Nominal Capacity C ₂₀	214 Ah
Nominal Capacity C ₁₀	190 Ah
CCA (EN)	1300 A
Internal Resistance	3,3 mΩ
Operating Temperature range	-40 °C to +50 °C
Short Circuit Current	3800A
Weight	60 kg
Storage	60 Months**
Storage at 25°C without recharge	24 Months
Terminals	M10 Stud (9.0Nm)
Service life	3 to 10 Years
Flame retardancy class	LUPOY GN5001RFN I3 / F2 (NF F 16-101)