Cyclic Duty Gel Batteries

SPECIALIST VEHICLE APPLICATIONS 40Ah – 260Ah

Antares have been designing auxiliary electrical power systems for over two decades. During that period we have found that the Cyclic duty GEL battery offers the best characteristics for specialised vehicles.

The GEL battery provides a very cost effective solution for a professional auxiliary battery which has to provide cyclic performance over many years.

The GEL battery is manufactured in the USA to the very highest quality and technical standards by East Penn Manufacturing Inc a global leader in specialised Sealed Valve Regulated Lead Acid technology

Benefits

- Thick consistency of gelled electrolyte and tight pack construction prevents the damaging effects of vibration
- Ultra premium sealing valves prevents capacity loss and controls pressure
- Fortified posts, straps and welds that resist vibration damage and maximise current transfer
- Recombinant construction with gelled electrolyte eliminates spills, gassing and terminal corrosion under normal operating conditions
- Individual Plate Formation (IPF) Technology optimizes power capacity, cell consistency and long term reliability
- 250 quality control checks to assure superior performance and long life

Cyclic GEL batteries

The Antares range of GEL batteries are designed to be used where the battery is expected to be repeatedly charged and discharged, as part of its normal day to day operation.

GELs are particularly suited to operating voltage sensitive loads. The battery "holds up" the voltage for longer and can discharged deeper giving greater usable capacity.

Not all GEL batteries are designed for cyclic applications! However our batteries are designed from outset for this duty.

Maximum life and cycling

- A phosphoric acid additive is put in which dramatically extends cycle life.

The acid does not stratify as with flooded cells (because the electrolyte is immobilised in gel) and this "acid limited" design does not allow self

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ANTARES
engineering with answers

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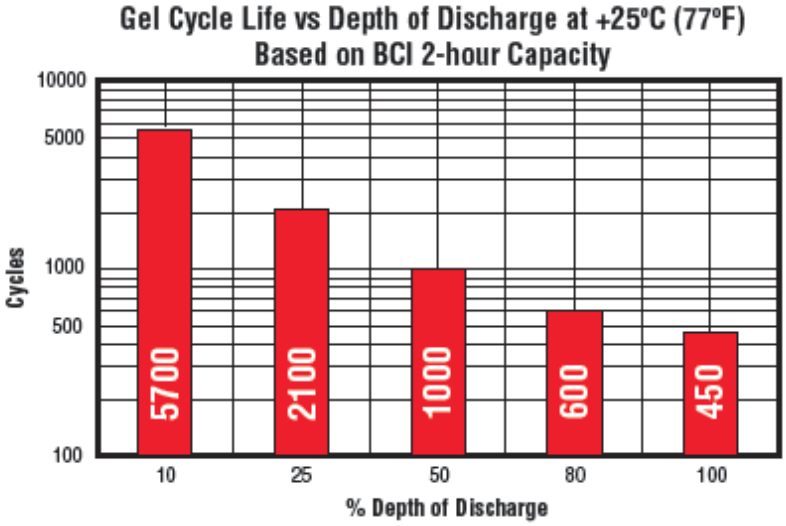
destruction caused by ultra-deep discharging.

Ease of use

The batteries can be operated in virtually any position. Installation upside down is not recommended.

Any normally ventilated enclosure is suitable.

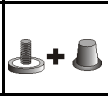
The larger batteries are fitted with a carrying handle to ease carrying, installation and removal.



Temperature range

GEL batteries are very well suited to low temperature applications down to –60°C. A fully charged GEL will not freeze at 0°C and will not be harmed even if at very low arctic temperatures! Capacity is impaired but recovers when the battery is warmed up.

The batteries operate best at +20°C to 25°C however they can be successfully operated up to +60°C ambient. If kept at consistently elevated temperatures the life of the battery is reduced.

Part Number	**66040**	**66050**	**66060**	**66070**	**66080**	**66100**	**66110**	**66145**	**66210**	**66260**[1]
Voltage	12VDC									
Nominal 5hr capacity	26.8Ah	34.0Ah	50.6Ah	47.5Ah	63.0Ah	72.0Ah	80.5Ah	96.8Ah	153.0Ah	188Ah
Nominal 20hr capacity	31.6Ah	40.0Ah	50Ah	60.0Ah	73.6Ah	88.0Ah	97.6Ah	115Ah	183.0Ah	225Ah
Peak 5hr capacity	28.4Ah	36.0Ah	57Ah	70Ah	84Ah	76.0Ah	85.0Ah	110Ah	153Ah	188Ah
Peak 20hr capacity	33.3Ah	42.1Ah	57Ah	70Ah	84Ah	91.0Ah	102Ah	125Ah	193Ah	237Ah
CA (0°C)	290A	325A	300A	420A	575A	550A	640A	-	1245A	1470A
Length mm Width mm Height mm	211 132 183	197 168 175	238 140 235	259 169 178	276 171 238	324 171 235	329 171 238	345 168 280	527 216 254	527 279 254
Weight	10.5KG	14.5KG	16.8KG	19.3KG	24.3KG	28.6KG	31.8KG	38.5KG	62KG	75KG
Terminations	Small L 8mm Hole	1/4" female	T881 SAE/BOLT	1/4" female	1/4" female	T881 SAE/BOLT	SAE +STUD	SAE POST[2]	SAE POST[2]	SAE POST[2]
										
SAE post to 8mm stud conversion – Positive post clamp part no **64570**, Negative post clamp part no **64571**										
Footnotes	1,2,3,4	2,3,4	2,3,4	2,3,4	1,5	2,3,4	1,5	1,4	1,4	1,4
	1=Includes Handle, 2 ="Non spillable" defined by IOT, 3 = "Non spillable as defined by IATA/ICAO 4 = Standard Life Cycle, 5 = Standard Life Cycle x 0.67									
Charging Instructions	WARRANTY VOID IF OPENED OR IMPROPERLY CHARGED. Constant under or overcharging will damage any battery and shorten its life! Use a good constant potential charger, voltage regulated charger. For 12 Volts charge to at least 13.8 but no more than 14,6V at 20°C									
Charge Voltage	13.8-14.1VDC @20°C									
Float Voltage	13.5-13.8VDC @20°C									
Container	Polypropylene									
Electrolyte	Sulphuric Acid Thixotropic GEL									
Plate Alloy	Lead Calcium/Copper grid alloy									
Vent	Self sealing 2psi operation									