



MPA 50-12

12V-50Ah - Cyclic AGM battery

Electrical Specifications

Nominal Voltage	12	V
Nominal capacity (C/20)	50	Ah
Capacity at 20° C to 1.75Vpc	20 hour rate	50 Ah
	10 hour rate	46 Ah
	5 hour rate	42 Ah
	3 hour rate	36 Ah
	1 hour rate	29 Ah
Current versus time in minutes	75A	15 Minutes
	25A	65 Minutes
	20A	95 Minutes
	15A	129 Minutes
	8A	280 Minutes
Shelf life without recharge @ 20° C	9	Months
Internal resistance	6	mΩ

Other Specifications

Cycle life 50% DoD	650	Cycles
Cycle life 75% DoD	380	Cycles
Dimensions	LxWxH	198x167x157 mm
	Total height	157 mm
Operating temperature	-20 to 50	°C
Separator	Random Glass Matt, S wrapped	
Grid alloy	Pb - Ca - AL	
Case and cover	ABS	
Vent	Self Sealing	
Electrolyte	Fixed	
Terminal	Insert M6	
Torque setting	5 - 7	Nm
Weight	13,5	kg

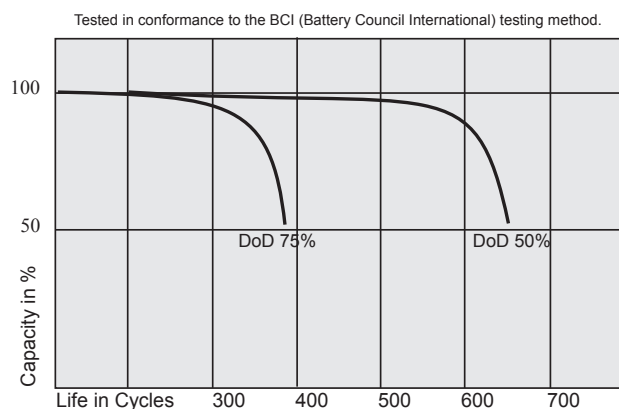
General Features

- International standard footprint
- Valve regulated cells
- Low internal resistance
- High initial capacity
- Non hazardous
- Lifting handle

Typical Applications

- Wheelchairs
- Scooters, 3 and 4 wheels
- Electric cars
- Cleaning machines
- Personal carriers
- Utility vehicles

Battery life under Cyclic Use



Battery Charging

- Charging Voltage max 2,4 Vpc (2,65 Vpc <10% Inom), Float charge 2,27 – 2,3 Vpc
- Maximum charging current for MPA 50-12 =15Amp
- Minimum charging current for MPA 50-12 = 5Amp

Cycle life

- To maximise the cycle life of the battery, we recommend to charge the battery fully after use.
- The total cycle life is very dependent on the correct charge and depth of discharge (DoD)!