



MPA 12-12

12V-12Ah - Cyclic AGM battery

Electrical Specifications



Nominal Voltage		12	V
Nominal Capacity (C/20)		12	Ah
Capacity 20°C to 1.7V	20 hour rate	12	Ah
	10 hour rate	11	Ah
	5 hour rate	10	Ah
	3 hour rate	9	Ah
	1 hour rate	8	Ah
Current versus time	75A	-	Minutes
	25A	-	Minutes
	20A	-	Minutes
	15A	-	Minutes
	8A	37	Minutes
Shelf life without recharge @ 20°C		6	Months
Internal Resistance		12	mΩ

Other Specifications



Cycle Life 50% DoD		600	Cycles
Cycle Life 75% DoD		380	Cycles
Dimensions	LxWxH	152x99x96	mm
	Total height	96	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		6,3mm Faston	
Torque setting		-	Nm
Weight		4	Kg

General Features



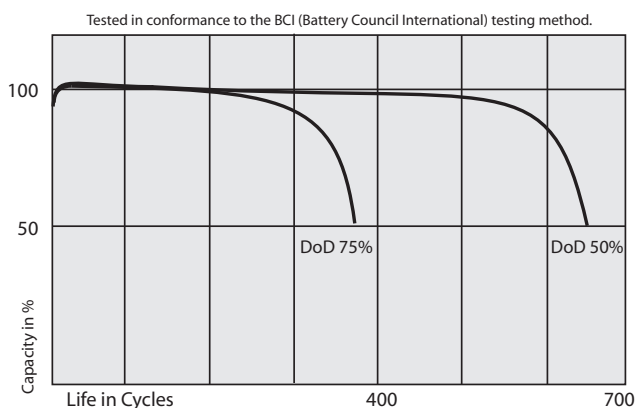
- International Standard Footprint
- Valve Regulated cells
- Low Internal Resistance
- High Initial capacity
- Vibration resistant
- Non Hazardous

Typical Applications



- Power Chairs
- Scooters, 2/3 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; 0,2A per Ah (C20 Capacity) e.g. MPA 85 -12 = 85 x 0,2 = 17Amp
- Minimum charging current; 0,1A per Ah (C20 Capacity) e.g. MPA 85-12 = 85 x 0,1 = 8,5Amp

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 dependant on the correct charge and depth of discharge (DOD)!