

## MPA 110-12

### 12V-110Ah - Deep Cycle AGM battery

#### Electrical Specifications



Nominal Voltage	12	V
Nominal capacity (C/20)	110	Ah
Capacity at 20° C to 1.75Vpc	20 hour rate	110 Ah
	10 hour rate	100 Ah
	5 hour rate	98 Ah
	3 hour rate	88 Ah
	1 hour rate	76 Ah
Current versus time in minutes	75A	63 Minutes
	25A	228 Minutes
	20A	- Minutes
	15A	- Minutes
	8A	- Minutes
Shelf life without recharge @ 20° C	9	Months

#### Other Specifications



Cycle life 50% DoD	550	Cycles
Cycle life 75% DoD	400	Cycles
Dimensions	LxWxH	330x170x216 mm
	Total height	236 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	Female M6	
Torque setting	5 - 7	Nm
Weight	32,8	kg

#### General Features



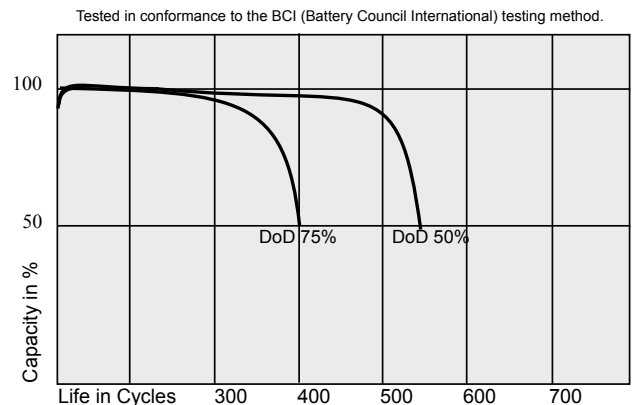
- International Standard Footprint
- Valve Regulated cells
- Low Internal Resistance
- High Initial capacity
- Lifting handle
- Non Hazardous

#### Typical Applications



- Wheelchairs
- 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 110 -12 = 110 x 0,3 = 22Amp
- Minimum charging current; 0,1A per Ah (C20 Capacity) e.g. MPA 110 -12 = 110 x 0,1 = 11Amp

#### 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)!