

Specifications

	Item	Specification
	<u>General Information</u>	
1.	Battery Type & Model	Sealed Maintenance-free VRLA Battery; Model: OPTI 100
2.	Nominal Capacity at 20 hr rate to end 10.5V/bloc at 25° C	100 Ah
3.	Nominal Voltage of Monobloc	12 V
4.	Normal operating temperature	+20°C to +30°C
5.	Operating Temperature Limits	-20°C to +50°C
	<u>Mechanical Data</u>	
6.	Dimensions in mm	See Figure 1 below
7.	Weight in kgs	30.0 Kg (approx)
	<u>Electrical Data</u>	
8.	Ampere-hour efficiency	95% (minimum)
9.	Watt-hour efficiency	85% (minimum)
10.	Charging Voltage	
	a) Stand by Application	Boost: 14.0 V per battery at 25° C Float: 13.7 V per battery at 25° C Single setting: 13.8 V per battery at 25° C
	b) Cyclic Application	14.1 V per battery at 25° C
11.	Charging Current Limit	10.0 A (minimum) in Constant Voltage mode
	<u>Design Data</u>	
12.	Type of plate	Flat pasted
13.	Type of Separator	Absorptive Glass Mat (AGM)
14.	Material of container and lid	PP
15.	Type of vent seal	Bunsen type, Self-resealing & pressure regulating
16.	Electrolyte	Dilute sulphuric acid in totally absorbed condition

Constant current discharge performance data @ 25° C:

ECV	Discharge currents (Amps)							
	10 min	15 min	30 min	1 Hour	3 Hour	5 Hour	10 Hour	20 Hour
1.75	179	143	93	58	23.3	15.8	9.1	5.0

Figure 1:

