

Specifications

	Item	Specification
	General Information	
1.	Battery Type & Model	Sealed Maintenance-free VRLA Battery; Model: OPTI 42
2.	Nominal Capacity at 20 hr rate to end 10.5V/bloc at 25° C	42 Ah
3.	Nominal Voltage of Monobloc	12V
4.	Normal operating temperature	+20°C to +30°C
5.	Operating Temperature Limits	-20°C to +50°C
	Mechanical Data	
6.	Dimensions in mm	See Figure 1 below
7.	Weight in kgs	13.5 Kg (approx)
	Electrical Data	
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	4.2 A (minimum) in Constant Voltage mode
	Design Data	
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	79	64	40.8	25.7	10.4	7.0	3.90	2.10

Figure 1:

