

Tubular Flooded Battery

12V 2 0PzS100

Application

- ◆ Telecommunications.
- ◆ Radio and cellular telephone relay stations.
- ◆ Emergency lighting systems.
- ◆ Power stations, Conventional power stations,
- ◆ Alternative power (solar, wind).
- ◆ Large UPS and computer back-up.
- ◆ Railway signalling.
- ◆ Maritime standby power on ships and ashore.
- ◆ Standby power.
- ◆ Buoy lighting.
- ◆ Long service life, designed life 15-20 years.

Specification

Nominal Voltage	12V	Self Discharge	Leoch batteries may be stored for up to 6 months at 20°C(68°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	
Capacity(10HR)	100AH (1.8V/cell, 20°C)	Current	Max. Discharge Current(5s)	800A
Dimensions	Length	Operating Temp. Range	Discharge	-15~50 °C(5~122 °F)
	Width	Container Material	Charging	0~40 °C(32~104 °F)
	Height		Storage	-15~45 °C(5~113 °F)
	Total height		Terminal	M8
Approx Weight	Without Electrolyte	Floating voltage: 13.4V~13.6V at 20°C(68°F)Temp.		
	With Electrolyte	Boost charge: 14.0V~14.4V at 20°C(68°F)Temp.		
Rated Capacity	107.0 AH/5.35A (20hr, 1.80V/cell, 20°C/68°F)	Charging current(max.): 0.1CA		
	100.0 AH/10.0A (10hr, 1.80V/cell, 20°C/68°F)	Temp.Coefficient -3mV/°C		
	82.5 AH/16.5A (5hr, 1.75V/cell, 20°C/68°F)			
	70.5 AH/23.5A (3hr, 1.75V/cell, 20°C/68°F)			
	53.7 AH/53.7A (1hr, 1.60V/cell, 20°C/68°F)			

Constant Current Discharge (Amperes) at 20 °C (68°F)

F.V(V/cell)	15min	30min	1H	2H	3H	4H	5H	8H	10H	20H
1.85	73.7	58.7	41.0	26.7	20.8	17.3	14.9	10.9	9.31	5.01
1.80	86.8	65.1	44.3	28.8	22.3	18.4	15.9	11.7	10.0	5.35
1.75	99.2	70.5	47.1	30.6	23.5	19.3	16.5	12.1	10.2	5.42
1.70	108.0	75.3	49.6	31.8	24.3	20.0	17.1	12.4	10.4	5.49
1.65	115.5	79.2	52.0	32.7	24.9	20.4	17.5	12.6	10.5	5.56
1.60	122.0	82.4	53.7	33.8	25.5	20.8	17.8	12.8	10.7	5.63

Constant Power Discharge (Watts/Cell) at 20 °C (68°F)

F.V(V/cell)	15min	30min	1H	2H	3H	4H	5H	8H	10H	20H
1.85	139.4	112.5	79.5	52.0	40.7	33.9	29.3	21.6	18.4	9.92
1.80	161.0	122.8	84.7	55.6	43.1	35.6	30.9	22.9	19.5	10.47
1.75	181.4	131.3	88.9	58.0	44.8	36.8	31.6	23.2	19.6	10.46
1.70	194.9	138.9	92.8	59.9	46.0	38.0	32.6	23.7	19.8	10.51
1.65	205.9	144.3	96.4	61.1	46.7	38.5	33.0	23.8	19.9	10.53
1.60	213.5	148.0	98.1	62.2	47.1	38.6	33.2	23.8	20.0	10.53