

# DEEP CYCLE SERIES

## SN12090DC (12V 90AH)



### Specifications

Nominal Voltage	12V
Nominal Capacity(10hr)	90AH
Dimension	Length 330±3mm(12.99inch) Width 173±2mm(6.81inch) Height 212±2mm(8.35inch) Total Height 220±2mm(8.66inch)
Approx Weight	Approx. 27.4kg(60.46lbs)
Terminal Type	T11
container Material	ABS(UL-94HB)
Internal Resistance	Approx. 5.0m
Rated Capacity	93.6AH/4.68A (20hr, 1.80V/cell,25 /77 )
	90AH/9.0A (10hr, 1.80V/cell,25 /77 )
	78.3AH/15.7A (5hr, 1.75V/cell,25 /77 )
	69.3AH/23.1A (3hr, 1.75V/cell,25 /77 )
	55.8AH/55.8A (1hr, 1.60V/cell,25 /77 )
Max. Discharge Current	1080A(5S)
Nominal Operating Temp. Range	25±3 (77±5 )
Cycle Use	Charge Current Less Than 0.25CA 14.1V~14.7V@25 (77 )Temp. Coefficient -30mV/
Floating Use	No limit on Initial Charging Current Voltage 13.5V~13.8V@25 (77 )Temp. Coefficient -20mV/
Capacity affected by Temperature	40°C 103%
	25°C 100%
	0°C 86%
	-15°C 65%
Self-discharge	3 month Remaining capacity: 91%
	6 month Remaining capacity: 82%
	12month Remaining capacity: 65%



### Constant Power Discharge at 25 (77 )

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	281.6	223.7	192.2	162.4	130.5	99.6	81.8	52.5	41.6	34.1	27.6	24.1	19.6	16.8	9.18
1.80V/cell	374	282.5	229.1	189.1	151.6	114.9	91.2	56.9	44.6	36.2	29.5	25.7	20.8	17.8	9.26
1.75V/cell	412.7	305.4	247.1	201.5	156.1	118.1	95	58.8	45.2	36.9	30.2	26.3	21.1	17.9	9.33
1.70V/cell	441.9	325.3	260.2	210.2	161.6	122.4	97.6	61	46.4	37.8	30.9	26.9	21.3	18.1	9.51
1.65V/cell	480.4	347.9	274.5	221.6	169.1	124.3	100.2	62.3	48.1	39	31.6	27.4	21.6	18.4	9.62
1.60V/cell	517.6	369.1	288.7	233.5	177.2	128.9	103.2	64.1	49.4	40.1	32.5	27.9	21.8	18.6	9.66

### Constant Current Discharge at 25 (77 )

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	154	121.1	103	86.1	68.5	51.8	42.4	27	21.4	17.4	14.1	12.2	9.95	8.5	4.64
1.80V/cell	206.8	154.7	124.4	101.8	80.8	60.3	47.5	29.5	23	18.6	15.1	13.1	10.5	9	4.68
1.75V/cell	233.1	170	135.9	109.5	83.9	62.5	49.7	30.6	23.4	19	15.5	13.5	10.7	9.09	4.73
1.70V/cell	256.7	185.3	145.1	115.1	87.3	65	51.3	31.8	24.1	19.5	15.9	13.8	10.9	9.18	4.82
1.65V/cell	283.1	200	154.3	122.3	92.1	66.7	53	32.7	25.1	20.2	16.3	14.1	11	9.37	4.88
1.60V/cell	312.2	217.1	165	130.3	97.2	69.5	54.9	33.8	25.9	20.9	16.9	14.4	11.2	9.47	4.91