

# DEEP CYCLE SERIES

## SN12040DC (12V 40AH)



### Specifications

Nominal Voltage	12V
Nominal Capacity(20hr)	40AH
Dimension	Length 197±2mm(7.76inch)
	Width 165±2mm(6.50inch)
	Height 170±2mm(6.69inch)
	Total Height 170±2mm(6.69inch)
Approx Weight	Approx. 13.0kg(28.66lbs)
Terminal Type	T7
container Material	ABS(UL-94HB)
Internal Resistance	Approx. 9mΩ
Rated Capacity	40AH/2A (20hr, 1.80V/cell,25°C/77°F)
	38.4AH/3.84A (10hr, 1.80V/cell,25°C/77°F)
	34.8AH/6.96A (5hr, 1.75V/cell,25°C/77°F)
	30.8AH/10.3A (3hr, 1.75V/cell,25°C/77°F)
	24.8AH/24.8A (1hr, 1.60V/cell,25°C/77°F)
Max. Discharge Current	480A(5S)
Nominal Operating Temp. Range	25±3°C (77±5°F )
Cycle Use	Charge Current Less Than 0.25CA
	14.1V~14.7V@25°C(77°F)Temp. Coefficient -30mV/°C
Floating Use	No limit on Initial Charging Current Voltage
	13.5V~13.8V@25°C(77°F)Temp. Coefficient -20mV/°C
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°C(77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	125.2	99.4	85.4	72.2	58	44.3	36.4	23.3	18.5	15.2	12.3	10.7	8.73	7.47	4.08
1.80V/cell	166.2	125.5	101.8	84.1	67.4	51.1	40.5	25.3	19.8	16.1	13.1	11.4	9.23	7.9	4.11
1.75V/cell	183.4	135.7	109.8	89.6	69.4	52.5	42.2	26.1	20.1	16.4	13.4	11.7	9.36	7.97	4.15
1.70V/cell	196.4	144.6	115.6	93.4	71.8	54.4	43.4	27.1	20.6	16.8	13.7	11.9	9.49	8.05	4.23
1.65V/cell	213.5	154.6	122	98.5	75.1	55.3	44.5	27.7	21.4	17.3	14	12.2	9.61	8.2	4.28
1.60V/cell	230	164	128.3	103.8	78.8	57.3	45.9	28.5	22	17.8	14.5	12.4	9.69	8.27	4.29

### Constant Current Discharge at 25°C(77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	68.5	53.8	45.8	38.3	30.4	23	18.9	12	9.5	7.76	6.25	5.44	4.42	3.78	2.06
1.80V/cell	91.9	68.8	55.3	45.3	35.9	26.8	21.1	13.1	10.2	8.28	6.72	5.84	4.69	4	2.08
1.75V/cell	103.6	75.6	60.4	48.7	37.3	27.8	22.1	13.6	10.4	8.47	6.88	6	4.77	4.04	2.1
1.70V/cell	114.1	82.4	64.5	51.2	38.8	28.9	22.8	14.1	10.7	8.69	7.06	6.12	4.84	4.08	2.14
1.65V/cell	125.8	88.9	68.6	54.4	40.9	29.6	23.6	14.5	11.2	8.99	7.26	6.26	4.91	4.16	2.17
1.60V/cell	138.8	96.5	73.3	57.9	43.2	30.9	24.4	15	11.5	9.27	7.5	6.4	4.96	4.21	2.18