

# STANDBY SERIES SN12050 (12V 50AH)



## Specifications

Nominal Voltage	12V
Nominal Capacity(10hr)	50AH
Dimension	Length 225±3mm(8.85inch)
	Width 135±2mm(5.31inch)
	Height 220±2mm(8.66inch)
	Total Height 220±2mm(8.66inch)
Approx Weight	Approx. 16.0kg(35.3lbs)
Terminal Type	T6
container Material	ABS(UL-94HB)
Internal Resistance	Approx. 7.2mΩ
	52.0AH/3.38A (20hr, 1.80V/cell,25°C/77°F)
Rated Capacity	50AH/5.00A (10hr, 1.80V/cell,25°C/77°F)
	43.5AH/8.7A (5hr, 1.75V/cell,25°C/77°F)
	38.5AH/12.8A (3hr, 1.75V/cell,25°C/77°F)
	31AH/31A (1hr, 1.60V/cell,25°C/77°F)
Max. Discharge Current	600A(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	156.5	124.3	106.8	90.2	72.5	55.3	45.5	29.2	23.1	19	15.3	13.4	10.9	9.34	5.1
1.80V/cell	207.8	156.9	127.3	105.1	84.2	63.9	50.7	31.6	24.8	20.1	16.4	14.3	11.5	9.88	5.14
1.75V/cell	229.3	169.7	137.3	111.9	86.7	65.6	52.8	32.7	25.1	20.5	16.7	14.6	11.7	9.97	5.19
1.70V/cell	245.5	180.7	144.5	116.8	89.8	68	54.2	33.9	25.8	21	17.1	14.9	11.9	10.1	5.28
1.65V/cell	266.9	193.3	152.5	123.1	93.9	69.1	55.7	34.6	26.7	21.7	17.6	15.2	12	10.2	5.34
1.60V/cell	287.5	205	160.4	129.7	98.5	71.6	57.3	35.6	27.4	22.3	18.1	15.5	12.1	10.3	5.37

### 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	85.6	67.3	57.2	47.9	38	28.8	23.6	15	11.9	9.7	7.82	6.81	5.53	4.72	2.58
1.80V/cell	114.9	86	69.1	56.6	44.9	33.5	26.4	16.4	12.8	10.4	8.4	7.3	5.86	5	2.6
1.75V/cell	129.5	94.5	75.5	60.9	46.6	34.7	27.6	17	13	10.6	8.6	7.5	5.96	5.05	2.63
1.70V/cell	142.6	103	80.6	64	48.5	36.1	28.5	17.7	13.4	10.9	8.83	7.66	6.05	5.1	2.68
1.65V/cell	157.3	111.1	85.7	67.9	51.2	37	29.5	18.2	13.9	11.2	9.08	7.83	6.14	5.21	2.71
1.60V/cell	173.5	120.6	91.7	72.4	54	38.6	30.5	18.8	14.4	11.6	9.38	8	6.2	5.26	2.73