

FRONT TERMINAL SERIES

SN12180F (12V 180AH)



Specifications

Nominal Voltage	12V		
Nominal Capacity(10hr)	180AH		
Dimension	Length	561±3mm(22.08inch)	
	Width	125±2mm(4.92inch)	
	Height	316±2mm(12.44inch)	
	Total Height	316±2mm(12.44inch)	
Approx Weight	Approx. 54kg(119.1lbs)		
Terminal Type	T13		
container Material	ABS(UL-94HB)		
Internal Resistance	Approx. 2.9m		
Rated Capacity	185.6AH/9.28A	(20hr, 1.80V/cell,25	/77)
	180AH/18A	(10hr, 1.80V/cell,25	/77)
	164.5AH/32.9A	(5hr, 1.75V/cell,25	/77)
	138.6AH/46.2A	(3hr, 1.75V/cell,25	/77)
	111.6AH/111.6A	(1hr, 1.60V/cell,25	/77)
Max. Discharge Current	1360A(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	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	563.2	474.2	411	325.9	254.8	207.9	124.8	90.2	72.7	60.3	52.6	41.1	34.4	18.2
1.80V/cell	631	521.4	448.3	351.2	272	220.7	130.8	95.4	76	63.1	55.1	43.1	35.9	19
1.75V/cell	681.5	557.4	473.8	366.1	279.8	227.5	132.8	96.6	77.7	64.4	55.7	43.5	36.3	19.3
1.70V/cell	712.7	579	489.3	374.7	285.2	229.8	134.4	97.4	78.1	64.5	56.3	44.1	36.6	19.4
1.65V/cell	734.6	591	497.4	378.7	285.3	230.3	134.6	97.7	78.6	65.2	56.8	44.6	36.9	19.5
1.60V/cell	750.9	601.5	512.3	383.2	289.6	233.9	135.7	99.1	79.8	66.6	57.7	45.5	37.5	19.6

Constant Current Discharge at 25 (77)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	301.6	251.4	215.7	169.2	131.2	106.7	63.6	45.8	36.8	30.4	26.5	20.63	17.21	9.12
1.80V/cell	341.9	280.2	238.8	185.2	141.2	113.9	67.1	48.7	38.7	32	27.8	21.68	18	9.53
1.75V/cell	375.2	303.2	254.8	194.6	146.6	117.9	68.4	49.5	39.7	32.8	28.3	21.94	18.21	9.68
1.70V/cell	401.4	319.4	265.1	200.3	149.9	119.5	69.3	50	39.9	32.9	28.6	22.25	18.38	9.75
1.65V/cell	415.3	327.3	270.6	202.8	150.5	120	69.6	50.3	40.2	33.3	29	22.54	18.55	9.8
1.60V/cell	436.6	339.9	282.7	207.9	154.5	123.1	70.8	51.3	41.1	34.2	29.5	23.06	18.9	9.85