

### MAIN NEW ENERGY CO.,LTD

## **SDP SERIES**

### **Characteristics**

- ★ Extended Operating Temperature Range: Greensaver batteries are able to operate under the harshest environments from -40°C-+60°C temperatures
- ★ Maintains High Capacity Under Low Temperatures: Greensaver Batteries are able to hold 80-85% of their total capacity under-10°C temperatures.
- ★ High Charge Acceptance Ability: With low internal resistance, Greensaver batteries have high charge efficiency and have fast charging ability.
- ★ Long Battery Life: Without electrolyte stratification using patented electrolyte, Greensaver batteries have cycle life more than 1200 cycles.

# **Applications**

- ★ Golf cart, wheelchairs, Sweepers, Marine systems;
- ★ Electric car, Electric bike.
- ★ Solar energy and wind energy systems;
- ★ Power station system;

	12V						
N	Nominal Capacity (20 hour rate)						
	٠,	10 hour rate (3.6A)	36.0Ah				
Capa@ 25°C(7	•	5 hour rate (6.4A)	32.0Ah				
		1 hour rate (22.0A)	22.0Ah				
Internal Re	esistance	Full Charged Battery 25℃	≤10m Ω				
Capacity af	fected by	40°C (104°F)	102%				
Temper		25℃ (77°F)	100%				
(10 hou		0°C (32°F)	90%				
(10 1100	u )	-15°C (5°F)	80%				
Self-Dis	charge	after 3 month storage	95%				
25℃(7	′7°F)	after 6 month storage	85%				
Capa	city	after 12 month storage	80%				
Charge	E1 4	Initial Charging Current Less than 10A					
(Constant Voltage)	Float	Voltage 13.6-13.8V					
voltage) 25°C	G 1	Initial Charging Current Less than 10A					
(77°F)	Cycle	Voltage 14.4-14.9V					

Battery	Length	198mm					
	Width	166mm					
Dimensions	Height	174mm					
	Total	174mm					
	Height	·					
	Length	212mm					
Box Dimensions	Width	180mm					
	Height	220mm					
Quantity P	er Box	1 PC per box					
Net weight	Per Cell	14 kg±100g					
Net weight	Per Box	14kg					
Gross W	eight	14.5kg					

#### Discharge Constant Current per Cell (Amperes at 77°F25°C)

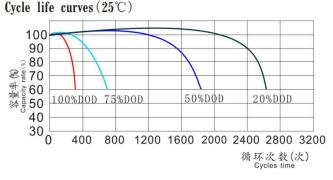
			•	<u> </u>								
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	95.0	60.6	51.5	32.9	24.2	22.2	14.1	9.9	6.7	4.4	4.0	2.2
1.65V	93.3	59.5	50.5	32.3	23.7	21.8	13.8	9.7	6.6	4.4	3.9	2.16
1.70V	91.6	58.4	49.6	31.7	23.3	21.4	13.6	9.5	6.5	4.3	3.8	2.12
1.75V	89.9	57.3	48.7	31.1	22.8	21.0	13.3	9.4	6.4	4.2	3.7	2.08
1.80V	86.4	55.1	46.8	29.9	22.0	20.2	12.8	9.0	6.1	4.0	3.6	2.00

#### Discharge Constant Power per Cell (Watts at 77°F 25°C)

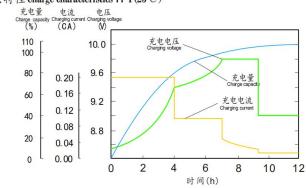
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	183.0	116.6	99.1	63.3	46.5	42.7	27.1	19.1	13.0	8.5	7.6	4.2
1.65V	179.6	114.5	97.3	62.1	45.7	41.9	26.6	18.7	12.7	8.4	7.5	4.2
1.70V	176.3	112.4	95.5	61.0	44.8	41.1	26.2	18.4	12.5	8.2	7.3	4.1
1.75V	173.0	110.3	93.7	59.8	44.0	40.4	25.7	18.0	12.3	8.1	7.2	4.0
1.80V	166.3	106.0	90.1	57.5	42.3	38.8	24.7	17.3	11.8	7.8	6.9	3.8

### **Performance Characteristic**

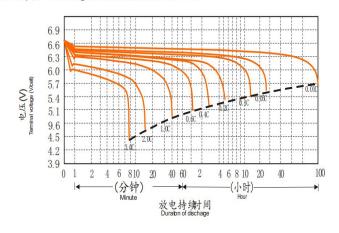
放电深度与循环寿命的关系(25℃)



### 充电特性 Charge characteristics 77°F(25°C)



## 放电特性 Discharge characteristics77 F(25℃)



不同温度下的放电容量

### Temperture and discharge capacity

