## **Norkven®**

## OV12-180S

Cells Per Unit	6
Voltage Per Unit	12
Capacity	180Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx. 52.0 Kg (Tolerance ±3.0%)
Internal Resistance	Approx. 4.0 mΩ
Terminal	F5(M8)/F12(M8)
Max. Discharge Current	1800A (5 sec)
Cold Cranking Ampere(CCA)	780A
Maxi. Charging Current	54.0A
Reference Capacity	C3 138.0AH C5 157.0AH C10 180.0AH C20 190.8AH
Float Charging Voltage	13.6 V~13.8 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.6 V~14.8 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C
Normal Operating Temperature Range	25°C±5°C
Self Discharge	Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25°C and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25°C. Please charged batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

EV ( Electric Vehicle ) series is specially designed for frequent discharge deep cycle application. By using the specially designed active material, strong grids and thick plate construction, the EV series battery offers reliable performance in high load situations and could provide competitive cycle performance. It is suitable for Electric Vehicle and Golf cart, Floor Machines, Forklifts, Aerial lifts, Robotics, Marine, RV, Mobility and Medical Equipment, and most outdoor application.





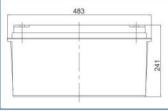


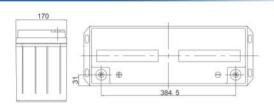
ISO 9001

ISO 14001



## Dimensions







F12 Terminal

Length	483±2mm (19.0 inches)				
Width	170±2mm (6.69 inches)				
Height	241±2mm (9.49 inches)				
Total Height	241±2mm (9.49 inches)				
Terminal	Value				
M5	6~7 N*m				
M6	8~10 N*m				
MO					

Uni	it:	mm	

Constant Current Discharge Characteristics : A(25°C)											
F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	378.3	307.0	191.1	106.6	64.9	50.3	39.9	34.0	22.8	19.0	9.93
1.65V	357.5	293.5	183.4	103.0	62.9	48.8	38.9	33.1	22.6	18.8	9.78
1.70V	329.1	274.9	175.3	99.6	60.8	47.4	37.8	32.2	22.2	18.5	9.66
1.75V	301.2	255.8	167.6	96.0	58.7	46.0	36.8	31.4	21.9	18.2	9.54
1.80V	272.7	236.2	160.2	92.3	56.6	44.6	35.8	30.6	21.6	18.0	9.44
1.85V	222.9	196.0	138.0	82.8	51.8	41.2	33.3	28.6	20.2	16.9	8.97

Constant Power Discharge Characteristics : WPC(25°C)											
F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	643.0	536.6	347.1	200.4	123.1	96.1	76.7	65.5	44.6	37.3	19.6
1.65V	619.4	520.6	336.7	194.6	119.7	93.5	74.9	64.1	44.2	36.9	19.3
1.70V	580.7	494.9	325.1	189.5	116.4	91.4	73.1	62.6	43.6	36.4	19.1
1.75V	541.1	467.3	313.9	183.7	112.9	89.0	71.5	61.2	43.1	36.0	18.9
1.80V	498.4	437.6	303.0	177.7	109.4	86.6	69.7	59.9	42.5	35.6	18.7
1.85V	414.5	368.2	263.6	160.3	100.8	80.4	65.0	56.0	40.0	33.5	17.8

