## Deep Cycle Series Battery

DC series VRLA batteries are superior deep cycle design with thick plates, high-density active materials And Slightly stronger electrolyte, Which can withstand repeated deep cyclic applications.

Deep cycle series Batteries are the special design batteries with 8 years floating design life at 25 °C. Meet with IEC,BS,JIS and Eurobat standard,UL(MH62092),CE approved.

#### Application

- \* Emergency Power System
- \* Communication equipment
- \* Telecommunication systems
- Uninterruptible power supplies
- Electric toy car and wheelchairs, etc.

# General Features

- Heavy Duty Grid
- Mechanized assembly
- Non-spillable construction
- High Reliability and Stability
- Sealed and Maintenance-free
- Long Life and low self-discharge design

- \* Power tools
- \* Alarm system
- \* Marine équipment
- \* Medical equipment
- \* Fire and Security System

## Construction

- Positive · · · · · Lead dioxide
- Electrolyte · · · Sulfuric acid
- \* Separator · · · · · Fiber glass
- \* Terminal ······ Copper

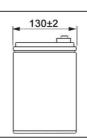
- \* Negative · · · · · Lead \* Safety Valve ····· EPDM
- \* Container ··· ·· ABS(UL94-HB) / Flame Retardant ABS (UL94-V0)

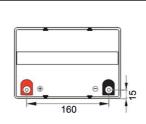
#### Specification

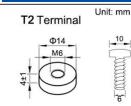
Dotton Model	Nominal V	oltage		12V (6 cells per unit)					
Battery Model	Rated capacity (2	rate)	33Ah						
Dimension	Length		Width	Height		Total Height			
Dimension	196mm (7.72 inches)	130	mm (5.12 inches)	155mm (6.10 inches)		170mm (6.69 inches)			
Approx Weight	9.50kg(20.94lbs) ± 3%								
Internal Resistance	Full charged at 25°C(77°F):Approx 8.20mΩ								
Maximum Charge Current	9.9A								
Max.discharge current	396A (5Sec.)								
Short-circuit current	880A								
Operating Temperature	Nominal Operating Temperature	Discharge		Charge		Storage			
Range	25℃(77℉)	-15°C~ 50°C (5°F~122°F)		-15℃~ 40℃ (5℉~104℉)		-15℃~ 40℃ (5℉~104℉)			
Capacity @ 25°C	20 hour rate(1.73A,10.5V)	10 hour rate(3.3A,10.5V)		3 hour rate(9.07A,10.2V)		1 hour rate(22.2A,9.6V)			
(77°F)	34.6Ah	33.0Ah		27.21Ah		22.20Ah			
Capacity affected by	40℃ (104°F)	<b>25</b> ℃ (77°F)		0°C (32°F)		-15℃ (5℉)			
Temp.(10HR)	102%		100%	85%		65%			
Charge method	Float Charging Voltage		Equalization Cha	arging Voltage		Cycle Use Voltage			
at 25°C(77°F)	13.5~13.8 VDC (-3mV/cell/℃)		14.1~14.4 VDC	(-4mV/cell/°C)	14.4~	15.0 VDC (-5mV/cell/°C)			

# Outer dimension (mm)

# 196+2







Torque:4~6N\*m

## Terminal Type

# Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(77°F)

F.V/Time	е	5min	10min	15min	20min	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	Α	100	69.5	54.5	44.2	34.5	20.5	12.00	8.67	5.77	3.87	3.20	1.69
	W	189	133.0	104.6	85.0	67.5	40.2	23.71	17.22	11.47	7.80	6.50	3.46
1.80V/cell	Α	107	73.5	57.0	46.5	35.6	20.9	12.24	8.81	5.87	3.93	3.25	1.71
	W	199	139.1	108.6	88.8	69.2	41.0	24.09	17.45	11.64	7.87	6.56	3.48
1.75V/cell	Α	113	77.2	59.7	48.4	36.5	21.3	12.43	8.95	5.96	3.98	3.30	1.73
	W	209	144.9	112.8	91.5	70.5	41.7	24.35	17.67	11.80	7.94	6.60	3.50
1.70V/cell	Α	119	80.4	62.3	50.0	37.2	21.6	12.60	9.07	6.04	4.03	3.33	1.74
	W	218	150.0	117.0	94.2	71.7	42.2	24.61	17.88	11.93	8.01	6.64	3.51
1.67V/cell	Α	122	82.3	64.3	50.9	37.7	21.8	12.72	9.15	6.08	4.06	3.35	1.75
	W	223	152.1	120.0	95.6	72.5	42.6	24.81	18.00	12.00	8.05	6.66	3.52
1.60V/cell	Α	130	86.0	67.0	52.8	38.5	22.2	12.92	9.25	6.15	4.11	3.38	1.77
	W	236	157.5	125.0	98.5	73.7	43.2	25.14	18.20	12.11	8.11	6.70	3.54

