

# JYC BATTERY MANUFACTURER CO.,LTD.

### Deep Cycle Series Battery

DC series VRLA batteries are designed with a continuous rolling and stamping grid structure, which can withstand repeated deep cyclic applications.

Deep cycle series Batteries are the special design batteries with 15 years floating design life at 25 ℃. 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

- Safety Sealing
- \* Non-spillable construction
- \* High power density
- \* Excellent recovery from Deep discharge
- \* Thick plates and high active materials
- \* Longer Life and low self-discharge design

- \* Generator, Power tools
- \* Golf cars and buggies
- \* Marine equipment
- \* Medical equipment
- \* Solar and wind power system

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### Construction

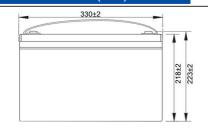
- Positive · · · · · Lead dioxide
- Electrolyte · · · Sulfuric acid
- \* Separator ··· ·· Fiber glass

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

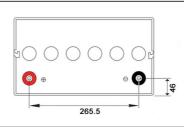
### Specification

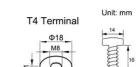
Battery Model	Nominal V	oltage		12V (6 cells per unit)						
Dattery Woder	Rated capacity (	rate)	100Ah							
Dimension	Length		Width	Height		Total Height				
Dilliension	330mm (12.99 inches)	172	2mm (6.77 inches)	218mm (8.58 inches)		223mm (8.78 inches)				
Approx Weight	28.2kg (62.17lbs) ± 3%									
Internal Resistance	Full charged at 25 $^{\circ}$ C(77 $^{\circ}$ F): Approx 3.78m $\Omega$									
Maximum Charge Current	30A									
Max.discharge current	1000A (5Sec.)									
Short-circuit current	1850A									
Operating Temperature	Nominal Operating Temperature	Discharge		Charge		Storage				
Range	<b>25℃(77</b> ℉)	-15℃~ 50℃ (5℉~122℉)		-15℃~ 40℃ (5℉~104℉)		-15℃~ 40℃ (5℉~104℉)				
Capacity @ 25°C	10 hour rate(10.0A,10.8V) 5 I		r rate(17.28A,10.5V)	3 hour rate(25.77A,10.2V)		1 hour rate(61.5A,9.6V)				
(77°F)	100.0Ah	86.4Ah		77.31Ah		61.50Ah				
Capacity affected by	40℃ (104℉)		<b>25</b> ℃ (77°F)	0℃ (32℉)		-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)









Terminal Type

Torque:10~12N\*m

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

F.V/Tim	е	5min	10min	15min	20min	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	Α	235	180	145	121	93.5	56.8	35.3	24.54	16.67	11.81	9.89	5.25
	W	440	343	279	235	182.9	112.3	70.4	49.13	33.50	23.77	19.92	10.59
1.80V/cell	Α	265	195	156	128	97.5	58.0	35.9	25.00	17.00	12.00	10.00	5.30
	W	488	367	297	246	189.3	114.1	71.4	49.91	34.08	24.11	20.11	10.68
1.75V/cell	Α	292	209	165	135	101.1	59.1	36.4	25.41	17.28	12.17	10.07	5.35
	W	529	388	311	258	194.9	115.8	72.1	50.61	34.57	24.41	20.22	10.77
1.70V/cell	Α	317	222	173	141	104.3	60.2	36.9	25.77	17.52	12.31	10.13	5.39
	W	565	408	324	267	199.9	117.4	72.9	51.22	34.99	24.67	20.31	10.84
1.67V/cell	Α	330	228	177	144	105.9	60.7	37.1	25.92	17.62	12.37	10.16	5.41
	W	584	416	330	272	202.3	118.2	73.2	51.47	35.17	24.77	20.36	10.88
1.60V/cell	Α	350	238	183	149	108.0	61.5	37.5	26.20	17.76	12.44	10.20	5.43
	W	611	430	338	279	205.4	119.4	73.9	51.95	35.42	24.89	20.43	10.91

