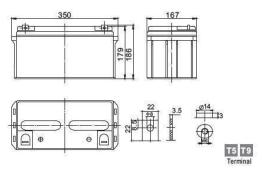
12V80Ah

Dimension





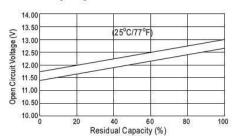
Specification

Nomina	al Voltage	12 V				
Capacity(10HR, 25℃)	80Ah				
	Length	350mm (13.8inch)				
Dimondian	Width	167mm (6.6inch)				
Dimension	Height	179mm (7.0inch)				
	Total Height(T5/T9)	186mm (7.3inch)/179mm (7.1inch)				
Approx	Weight	24.0kg (52.9lbs)				

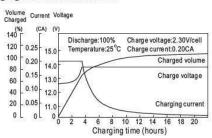
Characteristics

Guaracteristics		
	20 hour rate	84.6Ah
Capacity 20℃	10 hour rate	80Ah
(68□) To	5 hour rate	72Ah
1.70V/Cell	1 hour rate	49.9Ah
	15 min rate	32.5Ah
Internal resistance(Full	y charged, 25℃)	Approx.5.4m Ω
Capacity	40℃	102%
affected by	25℃	100%
temperature	0℃	85%
(10HR)	-15℃	65%
Self-discharge	3 month	Remaining Capacity: 91%
(25°C)	6 month	Remaining Capacity: 82%
(25 C)	12 month	Remaining Capacity: 65%
Nominal operating	temperature	25°C ±3°C(77°F ±5°F)
Operating tempe	rature range	-15°C~50°C(5°F~122°F)
Float charging vo	oltage(25°C)	13.50 to 13.80V
Cyclic charging v	oltage(25°C)	14.50 to 14.90V
Maximum charg	ing current	24A
Terminal m	aterial	Copper
Maximum discha	arge current	800A(5 Sec.)

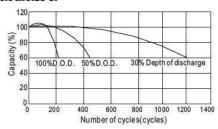
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



Charging Characteristics(25°C)



Cycle Life(25°C)



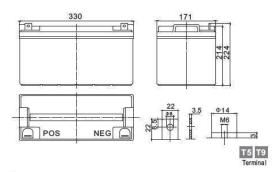
Constant Power Discharge Characteristics (Watt, 25°C)

Constant Current Discharge Characteristics (A, 25°C)

F.V/TIME	5min	10min	15min	30min	60min	3h	5h	10h	20h	5min	10min	15min	30min	60min	3h	5h	10h	20h
9.60V	256	175	135	84.0	52.0	20.3	14.6	8.12	4.26	2688	1890	1482	942	593	239	173	97.0	51.1
10.2V	243	166	130	80.6	49.9	20.0	14.4	8.08	4.23	2554	1796	1423	905	569	235	170	96.5	50.8
10.8V	229	156	123	76.6	47.4	19.6	14.1	8.00	4.20	2400	1688	1352	860	541	230	167	95.5	50.4

12V100Ah

Dimension(mm)





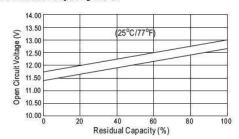
Specification

Nomin	al Voltage	12 V					
Capacity	(10HR, 25°C)	100 Ah					
	Length	330mm (13.0inch)					
Dimension	Width	171mm (6.7inch) 214mm (8.4inch)					
Dimension	Height						
	Total Height(T5/T9)	224 mm (8.8inch)/220mm (8.7inch)					
Approx	. Weight	30.5kg (67.1lbs)					

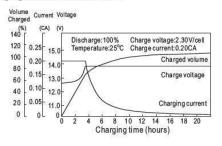
Characteristics

Ullarauturiotius						
	20 hour rate	107Ah				
Capacity 20°C	10 hour rate	100Ah				
(68□) To	5 hour rate	91Ah				
1.70V/Cell	1 hour rate	62.4Ah				
	15 min rate	42Ah				
Internal resistance(Fully	r charged, 25℃)	Approx.4.5m Ω				
Capacity	40℃	102%				
affected by	25℃	100%				
temperature	0℃	85%				
(10HR)	-15℃	65%				
Self-discharge	3 month	Remaining Capacity: 91%				
(25°C)	6 month	Remaining Capacity: 82%				
(25 0)	12 month	Remaining Capacity: 65%				
Nominal operating	temperature	25°C ±3°C (77°F ±5°F)				
Operating temper	ature range	-15°C~50°C(5°F~122°F)				
Float charging vol	tage(25°C)	13.50 to 13.80V				
Cyclic charging vo	ltage(25℃)	14.50 to 14.90V				
Maximum chargi	ng current	30A				
Terminal ma	nterial	Copper				
Maximum discha	rge current	800A(5 Sec.)				
N						

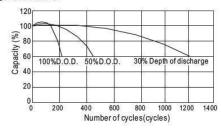
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



Charging Characteristics(25°C)



Cycle Life(25°C)



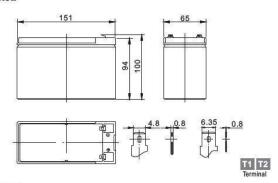
Constant Current Discharge Characteristics (A, 25°C)

Constant Power Rischard	ge Characteristics (Watt, 25°C)
CONSTANT POWER DISCHAR	yo dii ara diori sii ca i wali, 20-6)

F.V/TIME	5min	10min	15min	30min	60min	3h	5h	10h	20h	5min	10min	15min	30min	60min	3h	5h	10h	20h
9.60V	320	220	175	108	65.0	26.4	18.5	10.3	5.35	3360	2376	1922	1212	741	310	219	123	64.2
10.2V	304	209	168	104	62.4	26.0	18.2	10.2	5.35	3192	2257	1845	1167	711	306	215	122	64.2
10.8V	286	196	160	98.8	59.3	25.5	17.8	10.0	5.30	3003	2117	1757	1109	676	300	210	119	63.6

12V7.0Ah

Dimension





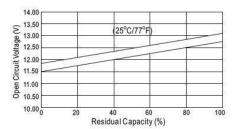
Specification

Nominal	Voltage	12 V	
Capacity(20	DHR, 25℃)	7Ah	
(A) (200)	Length	151mm (5.94inch)	
Dimension	Width	65mm (2.56inch)	
Dimension	Height	94mm (3.70inch)	
	Total Height	100mm (3.94inch)	
Approx. V	Veight	2.25kg (4.97lbs)	

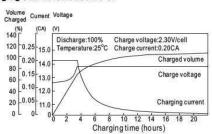
Characteristics

CHATACIETISHES						
	20 hour rate	7.0Ah				
Capacity 20℃	10 hour rate	7Ah				
(68□) To	5 hour rate	5.65Ah				
1.70V/Cell	1 hour rate	4.55Ah				
	15 min rate	3.35Ah				
Internal resistance(Full	y charged, 25℃)	Approx. 25mΩ				
Capacity	40°C	102%				
affected by	25℃	100%				
temperature	0℃	85%				
(20HR)	-15℃	65%				
Self-discharge	3 month	Remaining Capacity: 91%				
(25°C)	6 month	Remaining Capacity: 82%				
(200)	12 month	Remaining Capacity: 65%				
Nominal operating	temperature	25℃ ±3℃(77°F ±5°F)				
Operating temper	rature range	-15℃~50℃(5°F~122°F)				
Float charging vo	oltage(25°C)	13.60 to 13.80V				
Cyclic charging ve	oltage(25℃)	14.50 to 14.90V				
Maximum charg	Maximum charging current					
Terminal ma	aterial	Copper				
Maximum discha	arge current	105A(5 Sec.)				

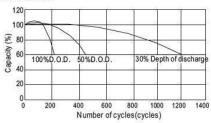
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



Charging Characteristics(25°C)



Cycle Life (25°C)



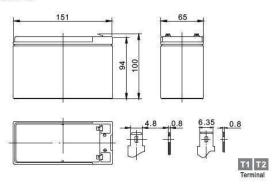
Constant Current Discharge Characteristics (A, 25°C)

Constant	Power Discha	rue Characteristics (Wa	tt. 25'C

F.V/TIME	5min	10min	15min	30min	60min	3h	5h	10h	20h	5min	10min	15min	30min	60min	3h	5h	10h	20h
9.60V	27.0	18.0	14.0	8.00	4.70	1.73	1.15	0.71	0.37	301	203	160	91.7	54.4	20.6	13.8	8.52	4.43
10.2V	25.7	17.1	13.4	7.66	4.55	1.70	1.13	0.70	0.36	287	191	153	87.8	52.7	20.2	13.6	8.40	4.33
10.8V	24.2	16.1	12.7	7.26	4.35	1.65	1.10	0.68	0.35	270	180	145	83.2	50.4	19.6	13.2	8.17	4.21

12V9.0Ah

Dimension(mm)





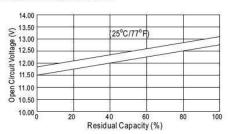
Specification

Nomi	nal Voltage	12 V
Capacity	(20HR, 25°C)	9Ah
	Length	151mm (5.94inch)
B''	Width	65mm (2.56inch)
Dimension	Height	94mm (3.70inch)
	Total Height(T1/T2)	100mm (3.94inch)
Approx	x. Weight	2.65kg (5.83lbs)

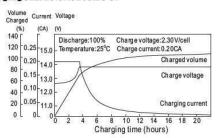
Characteristics

GHATAGGGTSUGS		
	20 hour rate	9Ah
Capacity 20℃	10 hour rate	8.1Ah
(68□) To	5 hour rate	7.45Ah
1.70V/Cell	1 hour rate	5.57Ah
	15 min rate	4.53Ah
Internal resistance(Full	y charged, 25℃)	Approx. 19m Ω
Capacity	40℃	102%
affected by	25℃	100%
temperature	0℃	85%
(20HR)	-15℃	65%
Self-discharge	3 month	Remaining Capacity: 91%
(25°C)	6 month	Remaining Capacity: 82%
(23 C)	12 month	Remaining Capacity: 65%
Nominal operating	temperature	25°C ±3°C (77°F ±5°F)
Operating temper	rature range	-15°C~50°C(5°F~122°F)
Float charging vo	oltage(25°C)	13.60 to 13.80V
Cyclic charging vo	oltage(25°C)	14.50 to 14.90V
Maximum charg	ing current	2.7A
Terminal m	aterial	Copper
Maximum discha	irge current	135A(5 Sec.)

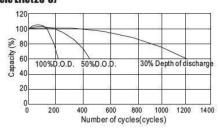
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



Charging Characteristics(25°C)



Cycle Life(25°C)

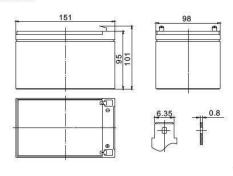


Constant Current Discharge Characteristics (A, 25°C)

F.V/TIME	5min	10min	15min	30min	60min	3h	5h	10h	20h	5min	10min	15min	30min	60min	3h	5h	10h	20h
9.60V	39.0	25.7	19.0	10.6	5.80	2.18	1.51	0.81	0.45	435	290	217	121	67.2	25.9	18.0	9.72	5.40
10.2V	37.1	24.2	18.1	10.2	5.57	2.15	1.49	0.81	0.45	414	273	206	117	64.5	25.5	17.8	9.72	5.40
10.8V	34.8	23.0	17.3	9.7	5.29	2.11	1.46	0.80	0.44	388	259	197	111	61.3	25.1	17.4	9.60	5.28

12V12Ah

Dimension(mm)





T2 Terminal

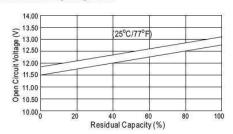
Specification

Nominal	Voltage	12 V
Capacity(20	OHR, 25℃)	12Ah
	Length	151mm (5.94inch)
Dimension	Width	98mm (3.86inch)
Dimension	Height	95mm (3.74inch)
	Total Height	101mm (3.98inch)
Approx. \	Weight	3.60kg (8.14lbs)

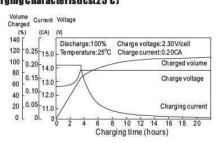
Characteristics

011111111111111111111111111111111111111					
	20 hour rate	12Ah			
Capacity 20℃	10 hour rate	11.1Ah			
(68□) To	5 hour rate	10.3Ah			
1.70V/Cell	1 hour rate	7.49Ah			
	15 min rate	5.87Ah			
Internal resistance(Full	y charged, 25℃)	Approx. 19m Ω			
Capacity	40℃	102%			
affected by	25℃	100%			
temperature	0℃	85%			
(20HR)	-15℃	65%			
Self-discharge	3 month	Remaining Capacity: 91%			
(25℃)	6 month	Remaining Capacity: 82%			
(200)	12 month	Remaining Capacity: 65%			
Nominal operating	temperature	25°C ±3°C(77°F ±5°F)			
Operating temper	rature range	-15°C~50°C(5°F~122°F)			
Float charging vo	ltage(25℃)	13.60 to 13.80V			
Cyclic charging vo	oltage(25°C)	14.50 to 14.90V			
Maximum charg	ing current	3.6A			
Terminal ma	aterial	Copper			
Maximum discha	rge current	180A(5 Sec.)			
63					

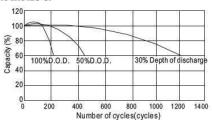
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



Charging Characteristics(25°C)



Cycle Life(25°C)



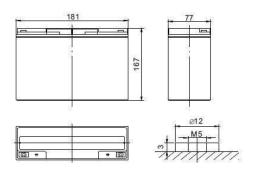
Constant Current Discharge Characteristics (A, 25°C)

F.V/TIME	5min	10min	15min	30min	60min	3h	5h	10h	20h
9.60V	46.0	31.0	24.5	13.5	7.80	3.17	2.08	1.12	0.60
10.2V	43.7	29.5	23.5	13.0	7.49	3.12	2.05	1.11	0.59
10.8V	41.0	27.7	22.3	12.3	7.11	3.06	2.01	1.10	0.59

5min	10min	15min	30min	60min	3h	5h	10h	20h
513	350	279	155	90.3	37.6	25.0	13.4	7.20
488	332	268	149	86.7	37.1	24.5	13.3	7.10
458	312	255	141	82.4	36.3	24.0	13.3	7.10

12V17Ah

Dimension



Specification

Nominal	Voltage	12 V	
Capacity(20	DHR, 25°C)	17Ah	
	Length	181mm (7.13inch)	
	Width	77mm (3.03inch)	
Dimension	Height	167mm (6.57inch)	
	Total Height	167mm (6.57inch)	
Approx. V	Veight	5.2kg (11.5lbs)	

Characteristics

	20 hour rate	17Ah
Capacity 20°C	10 hour rate	15.4Ah
(68°F) To	5 hour rate	13.6Ah
1.70V/Cell	1 hour rate	9.82Ah
	15 min rate	7.12Ah
Internal resistance(Ful	ly charged, 25°C)	Approx. 17m Ω
Capacity	40℃	102%
affected by	25℃	100%
temperature	0℃	85%
(20HR)	-15℃	65%
Self-discharge	3 month	Remaining Capacity: 91%
(25°C)	6 month	Remaining Capacity: 82%
(23 C)	12 month	Remaining Capacity: 65%
Nominal operating	g temperature	25°C ±3°C(77°F ±5°F)
Operating temps	erature range	-15°C~50°C(5°F~122°F)
Float charging v	oltage(25°C)	13.60 to 13.80V
Cyclic charging v	voltage(25℃)	14.50 to 14.90V
Maximum charg	ging current	5.1A
Terminal m	naterial	Copper
Maximum disch	arge current	255A(5 secretary.)



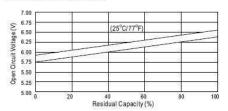
Features

- Nonspillable
- Solid Copper Terminals
 Long Service Life
- · Low Self-discharge
- Absorbent glass mattechnology
- Flame retardant ABS container (UL94V-0/94V-2)

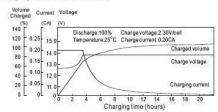
Application:

- Telecommunication equipments
- Emergency lighting
 Electronic instruments
- · Fire alarm and security devices
- UPS Systems

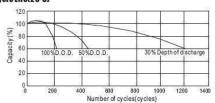
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



Charging Characteristics(25°C)



Cycle Life(25°C)

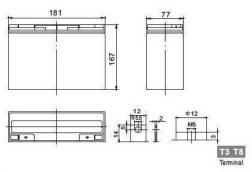


Constant Current Discharge Characteristics (A, 25°C)

F.V/TIME	5min	10min	15min	30min	60min	3h	5h	10h	20h	5min	10min	15min	30 min	60min	3h	5h	10h	20h
9.60V	59.5	37.4	29.8	17.9	10.2	4.14	2.76	1.55	0.86	664	422	339	205	118	49.2	33.0	18.6	10.4
10.2V	56.6	35.5	28.5	17.1	9.82	4.08	2.72	1.54	0.86	631	400	326	196	113	48.5	32.5	18.5	10.3
10.8V	53.2	33.4	27.1	16.2	9.30	4.00	2.66	1.53	0.85	593	377	309	187	108	47.5	31.8	18.5	10.2

12V18Ah

Dimension(mm)





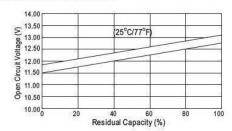
Specification

Nomin	nal Voltage	12 V			
0.0000000	(20HR, 25°C)	18Ah			
	Length	181mm (7.13inch)			
D:	Width	77mm (3.03inch)			
Dimension	Height	167mm (6.57inch)			
	Total Height(T3/T8)	167mm(6.57inch)/167mm(6.57inch)			
Approx	c. Weight	5.4kg (11.9lbs)			

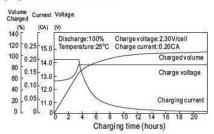
Characteristics

	20 hour rate	18Ah			
Capacity 20℃	10 hour rate	16.3Ah			
(68□) To	5 hour rate	14.4Ah			
1.70V/Cell	1 hour rate	10.4Ah			
	15 min rate	7.55Ah			
Internal resistance(Full	y charged, 25℃)	Approx. 17m Ω			
Capacity	40℃	102%			
affected by	25℃	100%			
temperature (20HR)	0℃	85%			
	-15℃	65%			
Self-discharge	3 month	Remaining Capacity: 91%			
(25°C)	6 month	Remaining Capacity: 82%			
(200)	12 month	Remaining Capacity: 65%			
Nominal operating	temperature	25℃ ±3℃(77°F ±5°F)			
Operating temper	rature range	-15°C~50°C(5°F~122°F)			
Float charging vo	oltage(25°C)	13.60 to 13.80V			
Cyclic charging ve	oltage(25℃)	14.50 to 14.90V			
Maximum charg	ing current	5.4A			
Terminal m	aterial	Copper			
Maximum discha	arge current	270A(5 Sec.)			

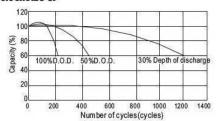
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



Charging Characteristics(25°C)



Cycle Life(25°C)



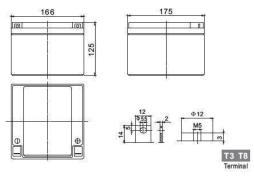
Constant Current Discharge Characteristics (A, 25°C)

F.V/TIME	5min	10min	15min	30min	60 min	3h	5h	10h	20h
9.60V	63.0	39.6	31.5	18.9	10.8	4.38	2.92	1.64	0.91
10.2V	59.9	37.6	30.2	18.1	10.4	4.32	2.88	1.63	0.91
10.8V	56.3	35.4	28.7	17.2	9.85	4.23	2.82	1.62	0.90

5min	10min	15min	30 min	60min	3h	5h	10h	20h
703	447	359	217	125	52.1	34.9	19.7	11.0
668	424	345	208	120	51.3	34.4	19.6	10.9
628	399	327	198	114	50.3	33.7	19.6	10.8

12V24Ah

Dimension(mm)





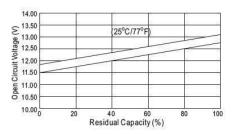
Specification

Nomina	l Voltage	12 V
Capacity(2	0HR, 25℃)	24Ah
	Length	166mm (6.54inch)
Dimension	Width	175mm (6.89inch)
Difficusion	Height	125mm (4.92inch)
	Total Height(T3/T8)	125mm(4.92inch)/125mm(4.92inch)
Approx.	Weight	8.0kg (17.6lbs)

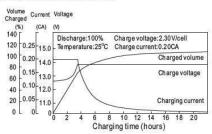
Characteristics

onuruotoriotioo		
	20 hour rate	24Ah
Capacity 20°C	10 hour rate	21.7Ah
(68□) To	5 hour rate	19.2Ah
1.70V/Cell	1 hour rate	13.8Ah
	15 min rate	10.0Ah
Internal resistance(Full	y charged, 25°C)	Approx. $12m \Omega$
Capacity	40℃	102%
affected by	25℃	100%
temperature	0℃	85%
(20HR)	-15℃	65%
Self-discharge	3 month	Remaining Capacity: 91%
(25°C)	6 month	Remaining Capacity: 82%
(250)	12 month	Remaining Capacity: 65%
Nominal operating	temperature	25°C ±3°C(77°F ±5°F)
Operating tempe	rature range	-15°C~50°C(5°F~122°F)
Float charging vo	oltage(25°C)	13.60 to 13.80V
Cyclic charging v	oltage(25℃)	14.50 to 14.90V
Maximum charg	ing current	7.9A
Terminal m	aterial	Copper
Maximum discha	arge current	360 A(5 Sec.)

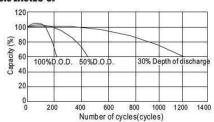
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



Charging Characteristics(25°C)



Cycle Life(25°C)

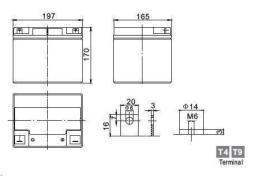


Constant Current Discharge Characteristics (A, 25°C)

F.V/TIME	5min	10min	15min	30min	60min	3h	5h	10h	20h	5min	10min	15min	30min	60min	3h	5h	10h	20h
9.60V	84.0	52.8	42.0	25.2	14.4	5.85	3.90	2.19	1.22	937	596	479	289	167	69.5	46.5	26.3	14.6
10.2V	79.8	50.2	40.3	24.2	13.8	5.76	3.84	2.17	1.21	891	566	460	277	160	68.4	45.8	26.1	14.5
10.8V	75.0	47.2	38.3	23.0	13.1	5.64	3.76	2.16	1.20	837	532	437	263	152	67.1	44.9	26.1	14.4

12V40Ah

Dimension(mm)





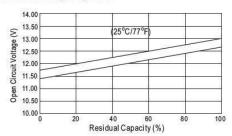
Specification

Nomi	nal Voltage	12 V				
Capacity	r(10HR, 25°C)	40Ah				
	Length	197mm (7.8inch)				
Dimension	Width	165mm (6.5inch)				
Difficusion	Height	170mm (6.7inch)				
	Total Height(T4/T9)	170 mm (6.7inch)/170 mm (6.7inch)				
Appro	x. Weight	13.3kg (29.3lbs)				

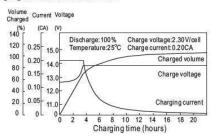
Characteristics

	20 hour rate	42Ah				
Capacity 20℃	10 hour rate	40Ah				
(68□) To	5 hour rate	36Ah				
1.70V/Cell	1 hour rate	25Ah				
	15 min rate	16.3Ah				
Internal resistance(F	ully charged, 25℃)	Approx.9.5m Ω				
Capacity	40℃	102%				
affected by	25℃	100%				
temperature	0℃	85%				
(10HR)	-15℃	65%				
Self-discharge	3 month	Remaining Capacity: 91%				
(25°C)	6 month	Remaining Capacity: 82%				
(200)	12 month	Remaining Capacity: 65%				
Nominal operati	ng temperature	25°C ±3°C (77°F ±5°F)				
Operating temp	perature range	-15°C~50°C(5°F~122°F)				
Float charging	voltage(25°C)	13.50 to 13.80V				
Cyclic charging	voltage(25℃)	14.50 to 14.90V				
Maximum cha	rging current	12A				
Terminal	material	Copper				
Maximum disc	harge current	400 A(5 Sec.)				

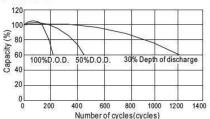
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



Charging Characteristics(25°C)



Cycle Life(25°C)



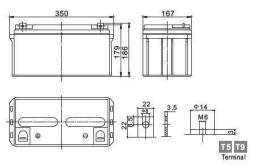
Constant Current Discharge Characteristics (A, 25°C)

F.V/TIME	5min	10min	15min	30min	60min	3h	5h	10h	20h
9.60V	122	81.0	68.0	40.0	26.0	10.4	7.31	4.06	2.10
10.2V	116	77.0	65.3	38.4	25.0	10.2	7.20	4.02	2.10
10.8V	109	72.3	62.0	36.5	23.7	10.0	7.06	4.00	2.05

5min	10min	15min	30min	60min	3h	5h	10h	20h
1281	875	747	449	296	122	86.4	48.5	25.2
1217	831	717	431	285	120	85.1	48.0	25.2
1144	781	681	409	270	118	83.4	48.0	24.6

12V65Ah

Dimension(mm)





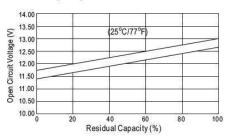
Specification

Nomin	al Voltage	12 V					
Capacity(10HR, 25℃)	65 Ah					
	Length	350mm (13.8inch)					
Discounting	Width	167mm (6.6inch) 179mm (7.0inch)					
Dimension	Height						
	Total Height(T5/T9)	186mm (7.3inch)/179mm (7.1inch)					
Approx	. Weight	21.2 kg (46.6lbs)					

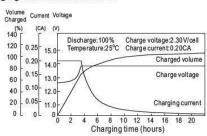
Characteristics

Unaracteristics						
	20 hour rate	69Ah				
Capacity 20℃	10 hour rate	65Ah				
(68□) To	5 hour rate	57.5Ah				
1.70V/Cell	1 hour rate	39.4Ah				
	15 min rate	26.5Ah				
Internal resistance(Full	y charged, 25°C)	Approx.6m Ω				
Capacity	40℃	102%				
affected by	25℃	100%				
temperature	0℃	85%				
(10HR)	-15℃	65%				
Self-discharge	3 month	Remaining Capacity: 91%				
(25°C)	6 month	Remaining Capacity: 82%				
(200)	12 month	Remaining Capacity: 65%				
Nominal operating	temperature	25°C ±3°C(77°F ±5°F)				
Operating tempe	rature range	-15°C~50°C(5°F~122°F)				
Float charging vo	oltage(25°C)	13.50 to 13.80V				
Cyclic charging v	oltage(25°C)	14.50 to 14.90V				
Maximum charg	ing current	19.5A				
Terminal m	aterial	Copper				
Maximum discha	arge current	650A(5 Sec.)				

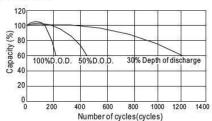
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



Charging Characteristics(25°C)



Cycle Life(25°C)



Constant Current Discharge Characteristics (A, 25°C)

F.V/TIME	5min	10min	15min	30min	60min	3h	5h	10h	20h	5min	10min	15min	30min	60min	3h	5h	10h	20h
9.60V	205	143	110	67.0	41.0	16.7	11.7	6.65	3.45	2153	1544	1208	752	467	196	138	79.4	41.4
10.2V	195	136	106	64.3	39.4	16.5	11.5	6.60	3.45	2045	1467	1159	722	449	194	136	78.8	41.4
10.8V	183	128	100	61.1	37.4	16.2	11.3	6.50	3.40	1922	1379	1102	686	426	191	134	77.6	40.8