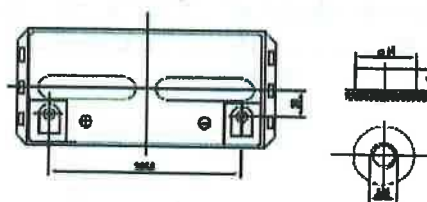


Rated voltage: 12 V **Capacity:** 65Ah C₁₀ at 25°C to 1.80V per cell

- * Designed service life of 10 years
- * World-wide compatibility
- * Easy maintenance with low operation cost
- * Easy installing and parameters readings
- * Wide operation temperature range
- * Superior low current discharge performance
- * Better safety performance and reliability
- * Modular and installation design
- * Environmental friendly

Size: 350x167x179mm

Weight: 23kg



Application:

Telecommunication
 UPS
 Solar and wind power system
 Electric power, nuclear power
 Marine

Company Certificates

ISO 9001:2009
 ISO 14001:2005
 OHSAS 18001:2008



Technical details

Max discharge current:	650A (5sec)	Self-discharge:	less than 9% / 90 days @ 25°C
Internal resistance (charged):	6mΩ @ 25°C	Max charge current:	19,5A
Temperature range		Charge voltage at 20°C	Float: 2.26-2.30V Cycle: 2.40-2.45V
Application temperature:	-20°C ~ 60°C	Terminal output:	M6
Storage:	-20°C ~ 60°C	Container	ABS
Charge:	-10°C ~ 50°C		
Temperature compens.factor:	30 mV/°C		

Temperature effect on battery capacity: 105 % @ 40°C; 85 % @ 0°C; 60 % @ -20°C

Discharge current (A/25°C, 68°F):

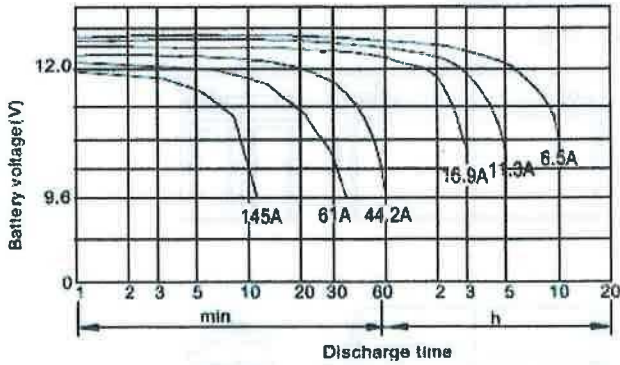
End Voltage	5min	10min	15min	30min	1h	3h	5h	10h	24h
1,60	215	160	125	70,5	44,2	17,7	12,1	7,01	3,20
1,65	203	151	116	68,0	41,9	17,1	11,7	6,90	3,12
1,70	191	143	114	66,3	41,5	16,9	11,5	6,76	3,06
1,75	178	132	108	66,2	40,9	16,7	11,3	6,61	2,97
1,80	165	120	100	61,8	38,3	16,3	11,1	6,50	2,86

Discharge power (W/25°C, 68°F):

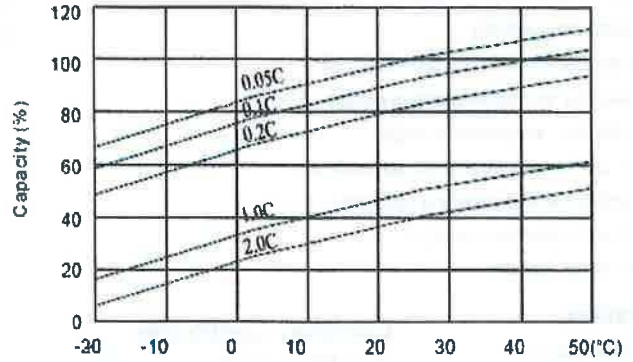
End Voltage	5min	10min	15min	30min	45min	1h	2h	3h	5h
1,60	381	282	222	132	98	80,8	46,1	34,5	22,8
1,65	359	267	206	127	97	79,0	45,1	33,8	22,6
1,70	337	252	197	118	95	77,2	44,6	33,7	22,4
1,75	315	237	193	116	92	75,4	43,2	32,4	22,0
1,80	294	220	183	114	91	75,0	42,5	31,7	21,7



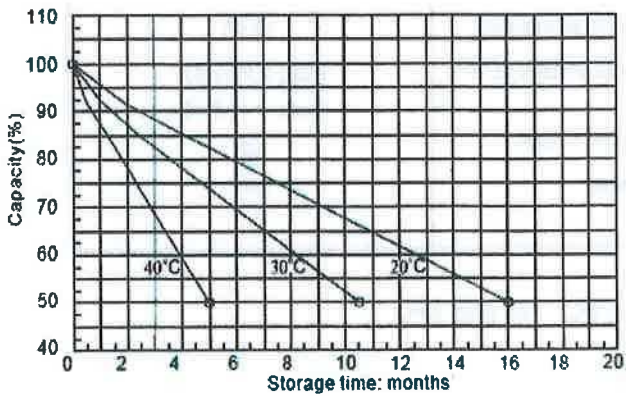
Discharge curves



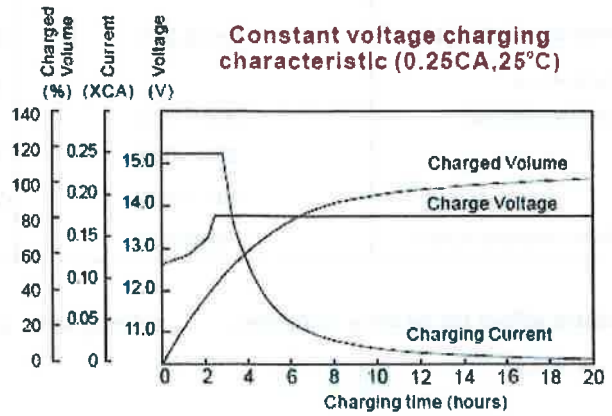
Temperature and capacity relation



Self-discharge at different temperature



Constant voltage charge characteristic

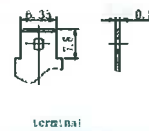
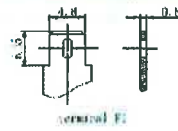
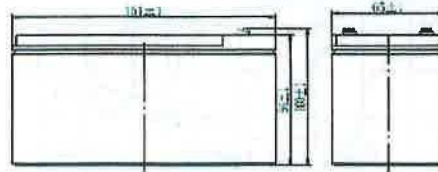


Rated voltage: 12 V **Capacity:** 7,2Ah C₁₀ at 25°C to 1.80V per cell

- * Designed service life of 10 years
- * World-wide compatibility
- * Easy maintenance with low operation cost
- * Easy installing and parameters readings
- * Wide operation temperature range
- * Superior low current discharge performance
- * Better safety performance and reliability
- * Modular and installation design
- * Environmental friendly

Size: 151x65x94(100)mm

Weight: 2,5kg



Application:

- Telecommunication
- UPS
- Solar and wind power system
- Electric power, nuclear power
- Marine

Company Certificates

- ISO 9001:2009
- ISO 14001:2005
- OHSAS 18001:2008



Technical details

Max discharge current:	108A (5sec)	Self-discharge:	less than 9% / 90 days @ 25°C
Internal resistance (charged):	22mΩ @ 25°C	Max charge current:	2,1A
Temperature range		Charge voltage at 20°C	Float: 2.27-2.30V Cycle: 2.40-2.45V
Application temperature:	-20°C ~ 60°C	Terminal output:	F1 or F2
Storage:	-20°C ~ 60°C	Container	ABS
Charge:	-10°C ~ 60°C		
Temperature compens.factor:	-20 mV/°C		

Temperature effect on battery capacity: 105 % @ 40°C 85 % @ 0°C; 60 % @ -20°C

Discharge current (A/20°C, 68°F):

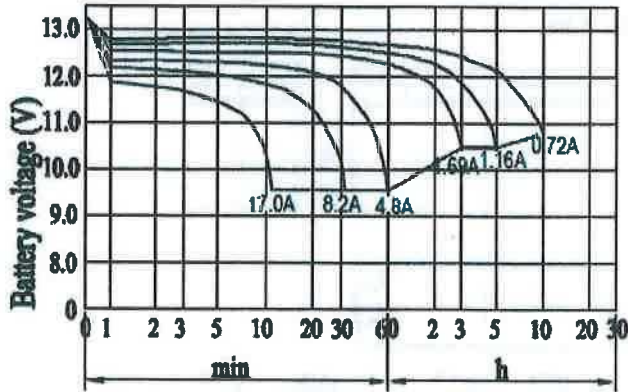
End Voltage	5min	10min	15min	30min	1h	3h	6h	10h	20h
1,60	-	18,8	15,3	8,50	4,80	1,88	1,29	0,80	0,43
1,65	-	17,9	14,6	8,15	4,63	1,82	1,25	0,78	0,42
1,70	-	17,0	13,9	7,86	4,44	1,76	1,20	0,76	0,41
1,75	-	16,0	13,2	7,56	4,25	1,69	1,16	0,74	0,40
1,80	-	15,1	12,5	7,18	4,04	1,64	1,12	0,72	0,39

Discharge power (W/20°C, 68°F):

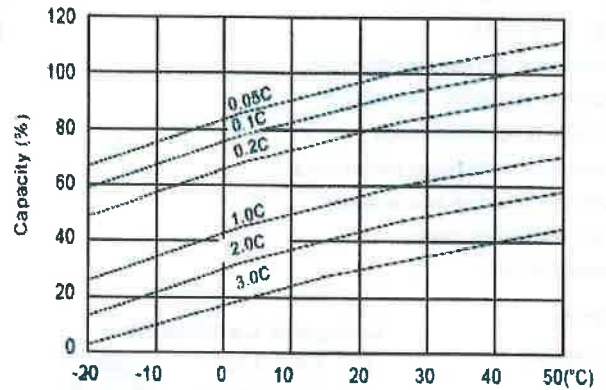
End Voltage	5min	10min	15min	30min	45min	1h	2h	3h	5h
1,60	-	35,8	28,1	15,5	11,8	9,30	5,13	3,68	2,38
1,65	-	34,0	27,0	14,9	11,3	8,90	5,02	3,59	2,34
1,70	-	32,2	25,9	14,3	10,8	8,53	4,89	3,49	2,30
1,75	-	30,4	24,8	13,7	10,4	8,28	4,73	3,38	2,25
1,80	-	28,6	23,8	13,2	10,0	7,90	4,58	3,27	2,19



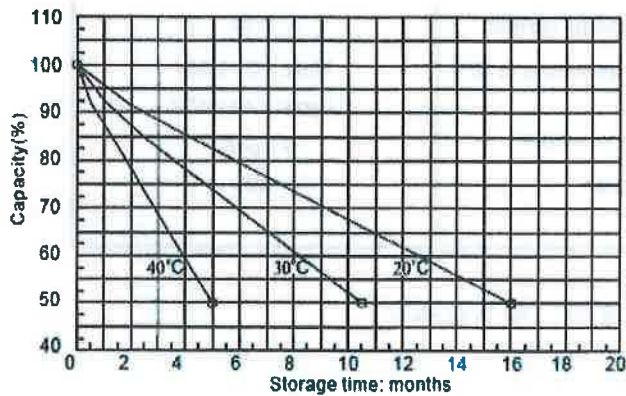
Discharge curves



Temperature and capacity relation



Selfdischarge at different temperature



Constant voltage charge characteristic

