

FEATURES

CHP series is specially designed for efficient discharges in cyclical applications of telecommunication devices, solar and UPS. By using strong grids: Positive plates are lead dioxide (PbO₂), negative plates are pure lead (Pb) with molecular reinforced carbon, terminal poles are copper and the electrolyte is sulfuric acid (H₂SO₄) in 100% gel technology.

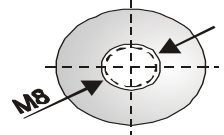
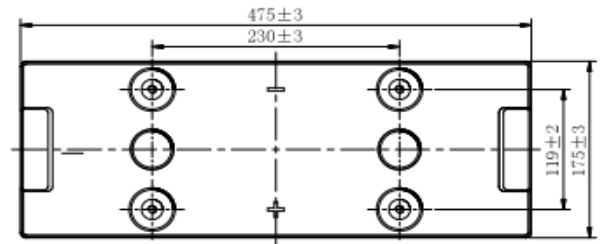
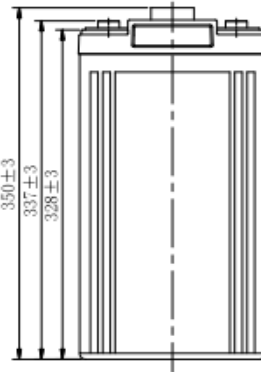
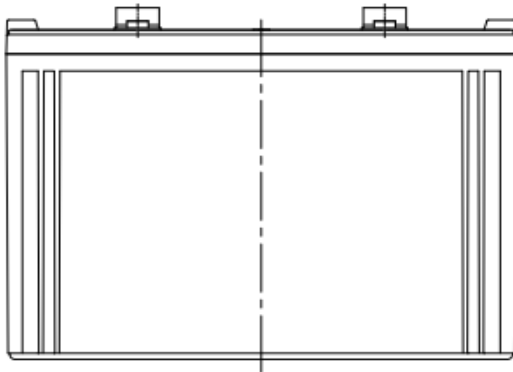
The CHP series offers an excellent recovery of water (≥ 99%) by premium Polyvinyl Chloride and Glass Mat separators, an advantage safety of anti-explosion in rubber one-way valve which can release pressure.

SPECIFICATION

Cell per unit	1	Ambient temperature	
Nominal Voltage (V)	2	Charge	-20°C (4°F) to 60°C (140°F)
Nominal Capacity (Ah)	1000Ah @10hour rate F.V(1.80/Cell)	Discharge	-20°C (4°F) to 60°C (140°F)
Weight	64.0kg	Storage	0°C (32°F) to 40°C (104°F)
Internal Resistance (1KHz)	≤ 0.55mΩ		
Max Discharge Current (5s)	4000A (5s)		
Design Life 25°C	15 years (standby)		
Terminal Type	IT - M8		
Container Material	ABS (Option: 94-HB & 94V-0 flame retardant case)		
Short circuit current	7000A		



DIMENSIONS	Length	Width	Height	Total Height
Unit: mm	475 ± 3mm	175 ± 3mm	328 ± 3mm	350 ± 3mm



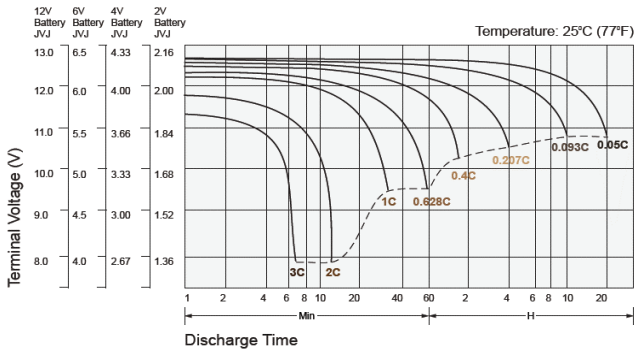
Constant current discharge characteristics Unit:A (25°C)

F.V/Time	30MIN	45MIN	60MIN	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	970,1	730,0	626,7	385,1	287,6	228,2	190,8	131,4	108,6	56,9
1.67V	959,0	694,2	597,5	369,8	277,4	220,8	185,1	128,3	106,2	56,0
1.70V	897,0	678,9	585,3	363,6	273,3	217,8	182,8	127,1	105,3	55,6
1.75V	840,0	654,0	564,6	352,4	265,6	212,5	178,8	124,8	103,8	54,9
1.80V	803,8	628,5	544,4	342,0	258,6	207,3	174,8	122,6	102,1	54,1

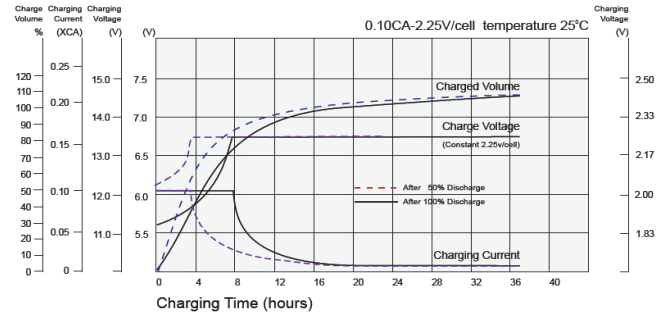
Constant power discharge characteristics Unit:W/Cell (25°C)

F.V/Time	30MIN	45MIN	60MIN	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	1793,1	1361,6	1175,8	732,7	551,9	440,2	369,7	256,8	212,9	112,7
1.67V	1788,1	1308,6	1131,9	708,6	535,3	428,2	360,3	251,6	209,0	110,9
1.70V	1688,8	1286,2	1114,0	6994,2	528,9	423,4	356,6	249,4	207,4	110,1
1.75V	1596,0	1249,0	1082,1	681,3	516,2	414,4	349,7	245,6	204,5	108,9
1.80V	1540,1	1209,5	1050,9	664,7	505,0	405,8	342,9	241,6	201,8	107,5

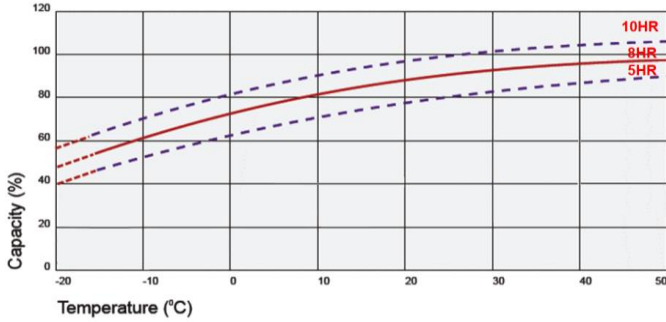
Battery Discharge Characteristics (25°C/77°F)



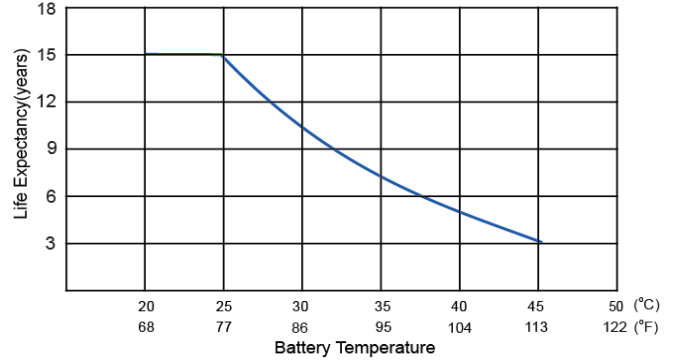
Battery Charge Characteristic for standby use



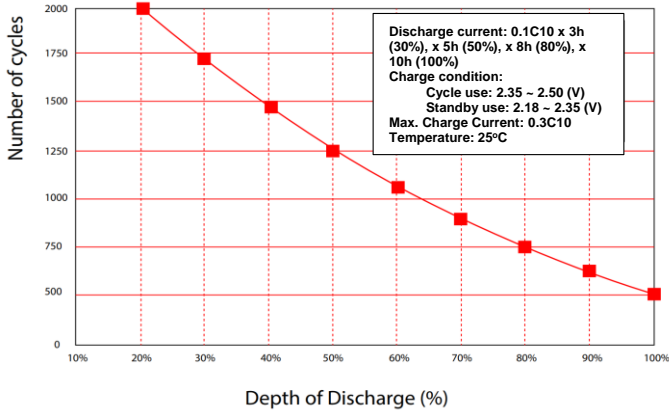
Temperature Effects in Relation to Battery Capacity



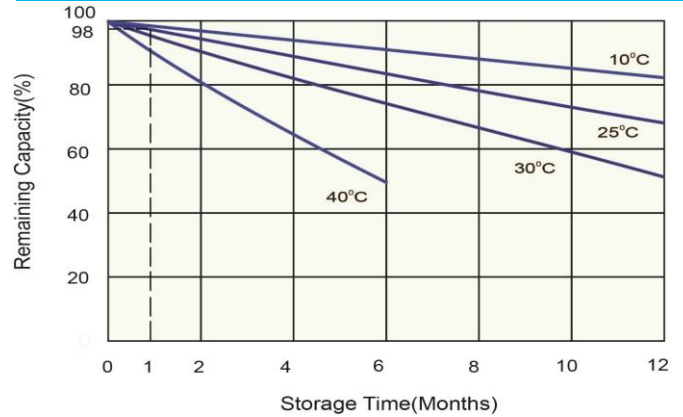
Temperature Effects on Long Term Float Life



Cycle Service Life



Self Discharge Characteristics



Charging Procedures

Application	Charge Voltage (V/cell)		Max. Charge Current (A)
	Temperature	Set Point / Allowable Range	
Cycle Use	25°C	2.43 / 2.30 ~ 2.50	0.3 x C10
Standby		2.27 / 2.18 ~ 2.35	

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/cell	1.75	1.70	1.65	1.60
Discharge Current (A)	0.2C > (A)	0.2C < (A)	0.5C < (A)	(A) > 1.0C
		< 0.5C	< 1.0C	

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