

ICS series

ICS-1200

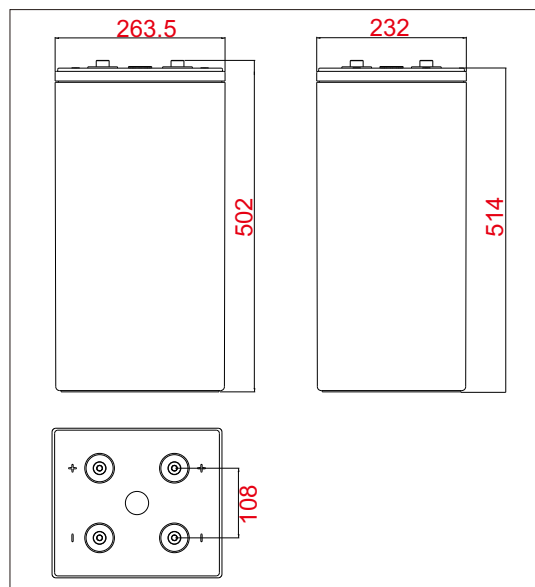
Narada's ICS series battery designed to provide highcycling and fast charge performance, idea for telecom service where power supply is unstable. With innovative structure design, high quality manufacturing and high quality material, ICS batteries are also capable of PSoC, hybrid, renewable energy storage application and other cycling/standby applications.



Specifications

Battery Model	ICS-1200	
Nominal voltage	2V	
Capacity	1200Ah (10HR, 120A, 1.80V, 25°C)	
Approx.Weight	88.0kg	
Internal Resistance	Approx 0.18mΩ	
Max Charge Current Allowed	300A	
Charge Voltage (25°C)	Cycle use	Float use
	2.35V/cell	2.27V/cell
Temperature Ranges	Operation(maximum): -40°C to 55°C (-40°F to 131°F)	
	Operation(recommended): 15°C to 25°C (59°F to 77°F)	
	Storage: -20°C to 40°C (-4°F to 104°F)	
Terminal	M8 Female	
Terminal Hardware	15 ± 1.0 N.m	
Container Material	ABS (V0 optional)	

Dimensions (mm)



Constant Current Discharge Data Units: Amperes (25°C, 77°F)

End voltage per cell	15min	20min	30min	40min	50min	1h	2h	3h	5h	8h	10h
1.65V	1512	1356	1128	996	864	678	414	318	222	144	130
1.70V	1416	1260	1056	960	840	672	408	312	216	140	127
1.75V	1236	1140	996	864	744	666	402	306	210	138	125
1.80V	1104	1020	876	756	696	660	396	302	206	136	122

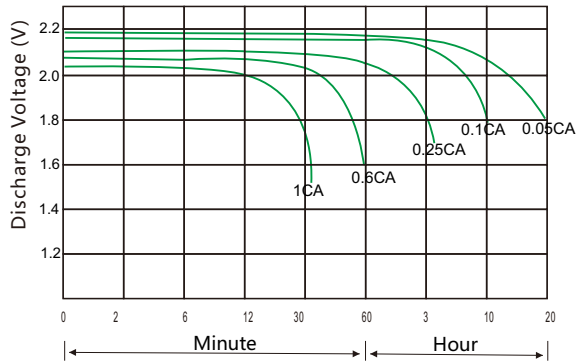
Constant Power Discharge Data Units: Watts per cell (25°C, 77°F)

End voltage per cell	15min	20min	30min	40min	50min	1h	2h	3h	5h	8h	10h
1.65V	2544	2364	2016	1764	1584	1308	870	684	480	312	300
1.70V	2400	2184	1920	1680	1524	1284	846	672	468	304	288
1.75V	2196	2040	1800	1596	1416	1260	834	648	456	296	276
1.80V	1980	1836	1656	1464	1332	1230	816	636	444	289	246

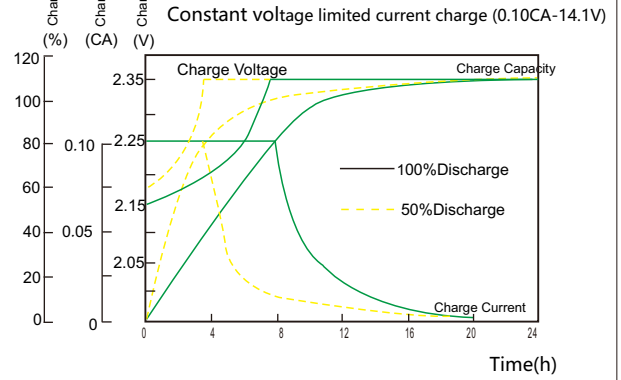
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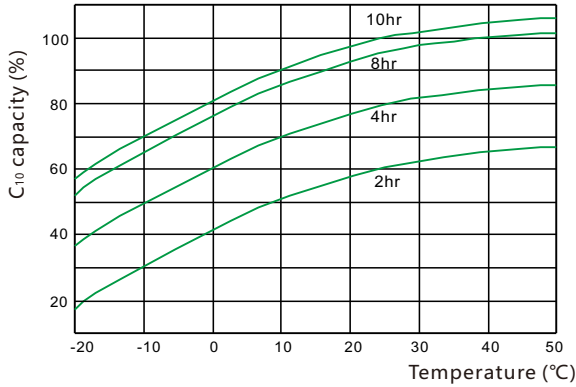
Discharge Voltage vs Time Curve (25°C)



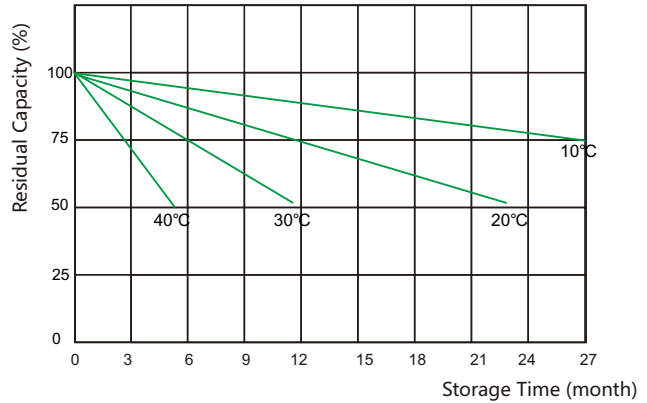
Charge Curve (25°C)



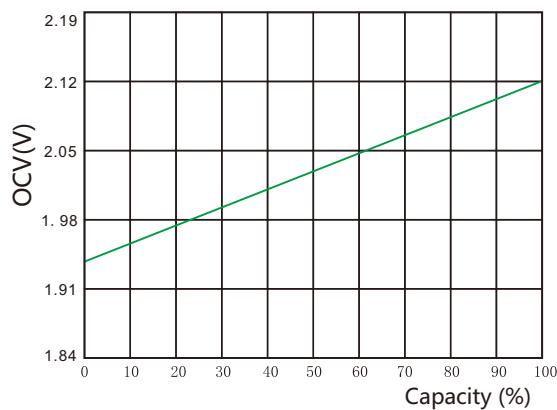
Capacity vs temperature curve



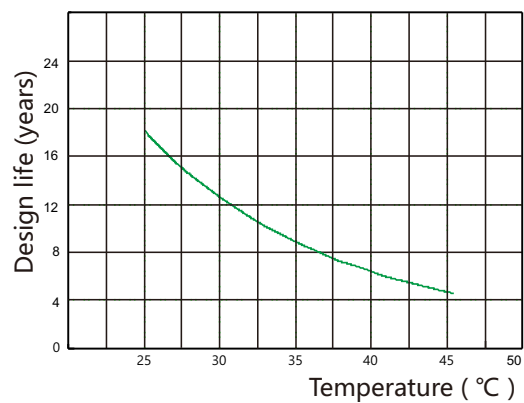
Residual Capacity vs Storage Time



Capacity vs OCV curve



Design life vs temperature



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