

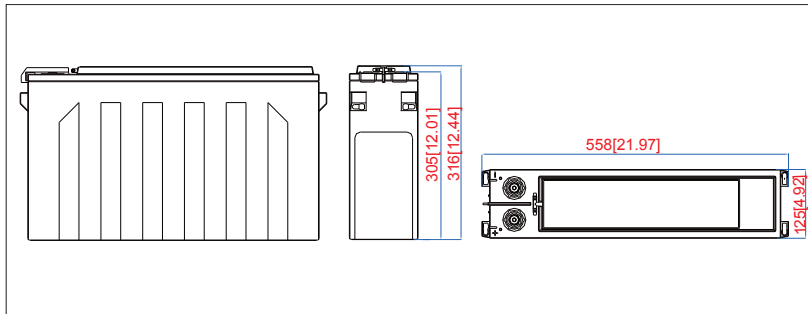
stored energy solutions for a demanding world

Model: **12UDS200**

UDS series

Narada UDS series is a battery designed as Ultra Duration Service battery, which is ideal for stable grid condition at varied temperature. It adopts Thin Plates Pure Lead (TPPL) technology and Continue Casting Punch Plates (CCPP) manufacture method and automatic assembling line. UDS series has extreme long standby service life, its design life is 16 years (20°C).

Dimensions-mm



Specifications

Battery Model	12UDS200
Nominal Voltage	12V
Rated Capacity	200Ah (10 hour rate) to 1.80V/cell @25°C(77°F)
Typical Weight	58.0kg
Internal Resistance	Approx 4.25 mΩ
Temperature Ranges	Operation(maximum): -40°C to 60°C(-40°F to 140°F)
	Operation(recommended): 20°C to 40°C(68°F to 104°F)
	Storage: -20°C to 40°C(-4°F to 104°F)
Float Voltage	2.25V/cell@25°C(77°F)
Recommended Maximum Charging Current Limit	50.0A
Equalize Voltage	2.35V/cell@25°C(77°F)
Shelf Life	2 years (20°C/68°F)
Terminal	M6 Female
Terminal Hardware Torque	8~10N·m
Container Material	ABS (V0 optional)

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

End voltage per cell	1HR	2HR	3HR	4HR	5HR	8HR	10HR	12HR	20HR
1.67V	134	78.2	56.6	44.4	36.8	24.3	21.5	18.4	11.7
1.70V	132	77.8	56.3	44.1	36.5	24.1	21.3	18.1	11.5
1.75V	128	76.5	55.4	43.5	36.0	23.7	20.8	17.3	11.0
1.80V	121	73.5	53.9	42.2	34.9	22.5	20.2	17.0	10.5
1.83V	114	71.7	52.4	41.1	33.9	21.5	19.6	16.3	10.2
1.85V	109	68.7	51.0	40.1	32.9	21.0	19.3	15.8	9.88

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

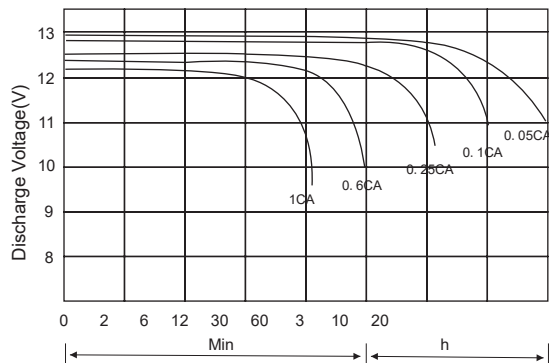
End voltage per cell	1HR	2HR	3HR	4HR	5HR	8HR	10HR	12HR	20HR
1.67V	260	155	113	89.1	74.5	49.3	43.4	37.1	23.5
1.70V	257	154	112	88.3	73.9	48.9	43.0	36.6	22.9
1.75V	248	153	111	87.2	72.9	48.1	42.3	35.4	21.3
1.80V	235	148	108	85.1	71.1	46.1	41.2	33.8	19.8
1.83V	223	143	105	83.6	69.9	44.6	39.9	32.7	18.1
1.85V	213	137	103	81.7	67.4	43.4	39.1	32.2	16.8

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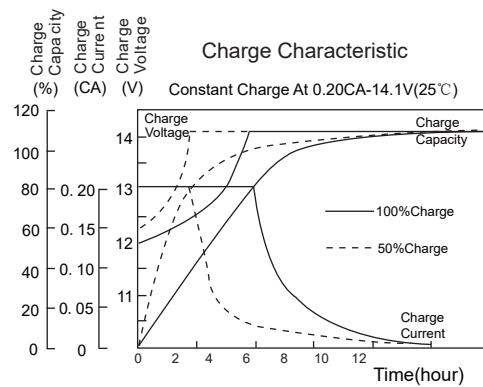
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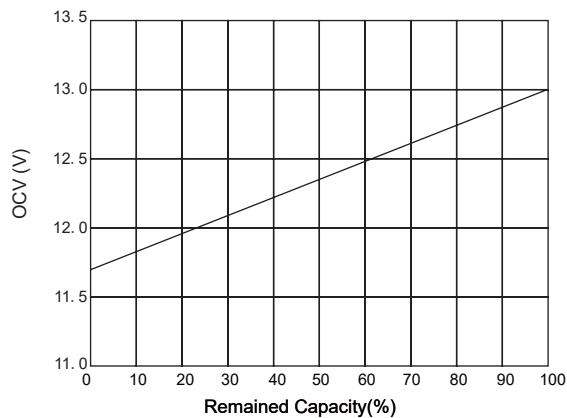
Terminal Voltage(V) Vs. Discharge Time (25°C, 77°F)



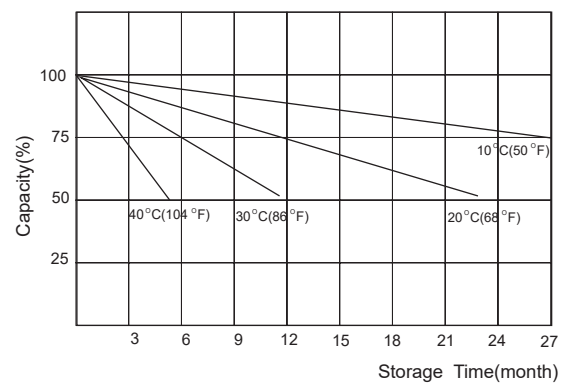
Battery Voltage Vs. Charge Time



Relationship of OCV Vs. State of Charge



Capacity Retention Characteristic



Charging Procedures

Application	Charge Voltage (V/Cell)			Max. Charge Current
	Temperature	Set Point	Allowable Range	
Cycle	25 °C	2.35	2.35~2.40	0.25C
Standby	25 °C	2.25	2.23~2.27	

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/Cell	1.80	1.70	1.55	1.30
Discharge Current (A)	0.2C ≥ (A)	0.2C < (A) < 0.5C	0.5C < (A) < 1.0C	(A) > 1.0C

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