

Univix 12 Lead-Carbon Battery – JL12-250



GENERAL FEATURES

- Lead-Carbon Composite Negative Plate
- High Purity Raw Material, Long Life-Cycle
- True Deep Cycle (Low Discharge Rate)
- Premium Fast Charging Capabilities
- Strong High and Low Temperature Performance
- Precision-Sealing Technology

APPLICATIONS

- Solar/Wind Energy, Alternative Energy Sources
- Tractors, Loaders, and Heavy Equipment
- Other Backup or Cycle Purposes



MECHANICAL SPECIFICATIONS

DIMENSIONS

20.47(L) x 10.55(W) x 8.66(H) x 8.77(TH) Unit • inches

SPECIFICATIONS

Nominal Voltage	12V		
Nominal Capacity	250Ah		
Design Life	15 years		
Terminal	M8		
Approx. Weight	Approx 71.0kg (157lbs)		
Container Material	ABS		
Internal Resistance	Full charged at 25°C 2.7m		
Maximum Discharge Current	3000A (5S)		
	250 Ah	203 Ah	165 Ah
Rated Capacity	10 Hour Rate (25.0A to 10.8V)	3 Hour Rate (67.8A to 10.8V)	1 Hour Rate (165A to 10.5V)
	DISCHARGE	CHARGE	STORAGE
Operating Temperature	-20 – 60°C (-4 – 140°F)	-20 – 50°C (-4 – 122°F)	-20 – 50°C (-4 – 122°F)
	CHARGE CURRENT	FLOAT CHARGE	EQUALIZE CHARGE
Charge Method (25° C)	Max. 75.0A; Recom. 25.0–50.0A	13.5-13.8V, Recom. 13.8V (-18mV/°C)	13.8-14.1V, Recom. 14.1V(-24mV/°C)
			CYCLE CHARGE
Self Discharge (25° C)	3% of capacity declined per month at 25°C		

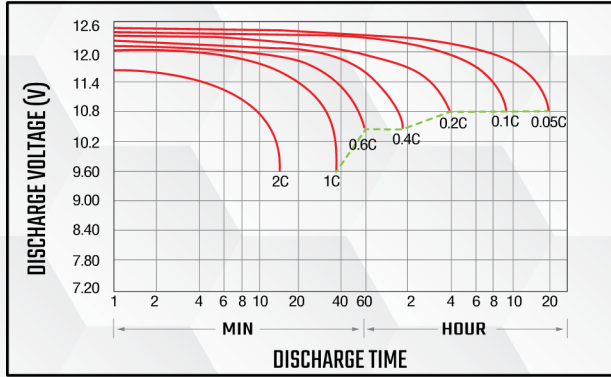
CONSTANT CURRENT DISCHARGE CHARACTERISTICS UNIT- A (25 °C, 77°F)

FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	898	483	293	170	97.5	70.8	47.5	31.3	26.3	13.8
1.65V	870	468	288	169	97.0	70.0	47.0	31.0	26.0	13.7
1.70V	838	458	283	168	96.3	69.0	46.5	30.8	25.8	13.6
1.75V	770	443	280	165	94.8	68.3	46.0	30.5	25.5	13.6
1.80V	690	413	270	161	93.0	67.8	44.8	30.3	25.0	13.5
1.85V	615	368	246	149	88.3	63.8	42.5	29.0	24.5	13.3

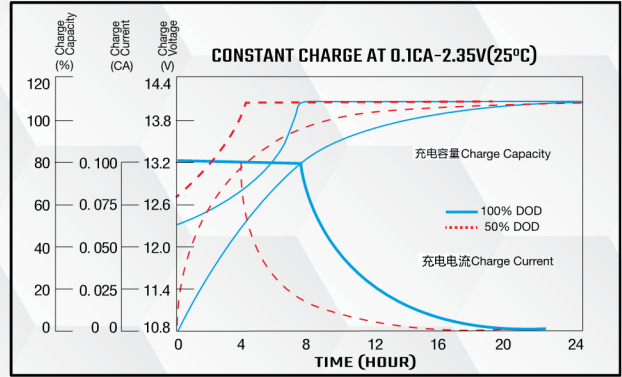
CONSTANT POWER DISCHARGE CHARACTERISTICS UNIT- W/CELL (25 °C, 77°F)

FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	1508	850	533	323	184	135	90.0	60.5	50.5	27.3
1.65V	1450	838	528	320	184	133	89.5	60.0	50.0	27.3
1.70V	1443	825	528	318	183	132	88.8	59.8	49.5	27.0
1.75V	1345	820	525	315	182	132	88.3	59.3	49.0	27.0
1.80V	1235	775	513	313	182	131	87.3	58.8	48.5	26.8
1.85V	1103	693	470	290	174	125	83.5	57.0	47.8	26.5

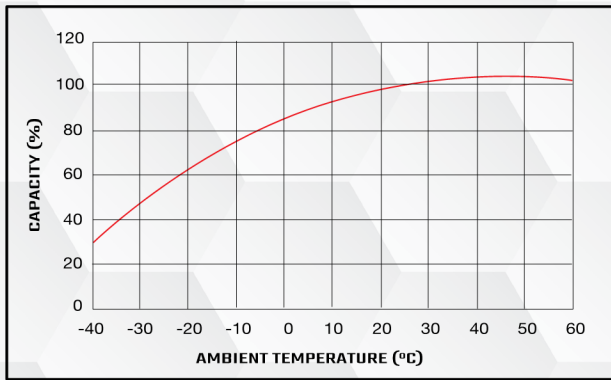
DISCHARGE CHARACTERISTIC



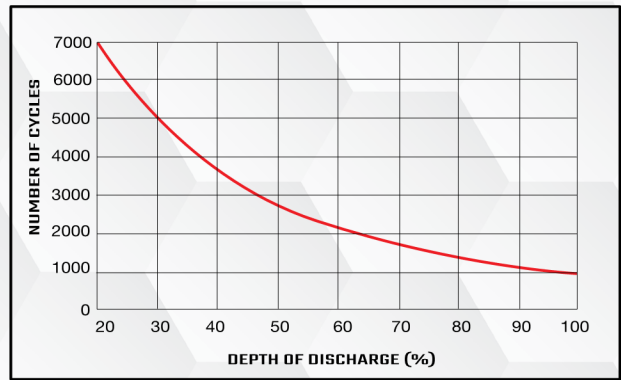
CHARGING CHARACTERISTIC



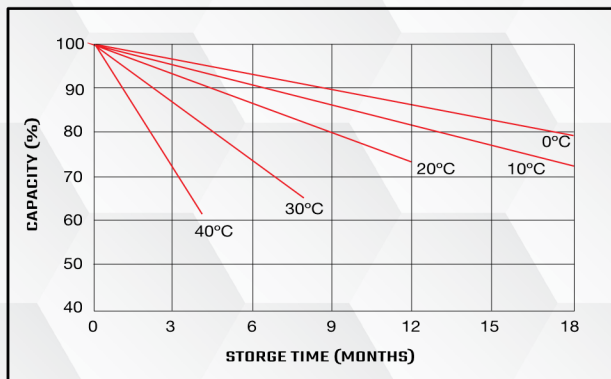
THE EFFECT OF TEMPERATURE ON CAPACITY



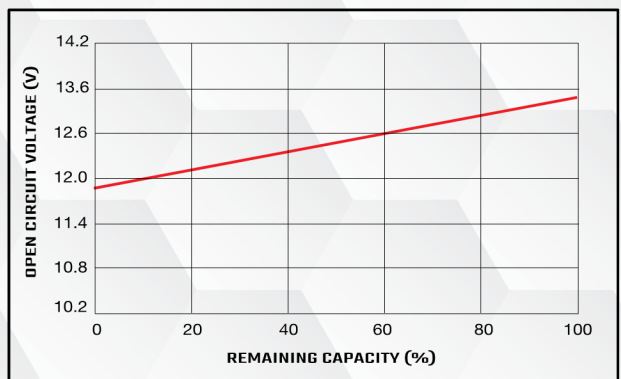
THE EFFECT OF DISCHARGE DEPTH ON CYCLE LIFE



CURVES OF SELF-DISCHARGE



BATTERY CAPACITY BASED ON VOLTAGE





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