

## General Features

- Positive and negative plates in lead-calcium tin alloy.
- Superior energy density
- Operates at a low internal pressure.
- Gas Recombination.
- Usable in any orientation.
- A recognized component of UL.
- Very high power output.
- Application specific designs.
- Six months shelf life at 20°C.
- Design life 10 years.

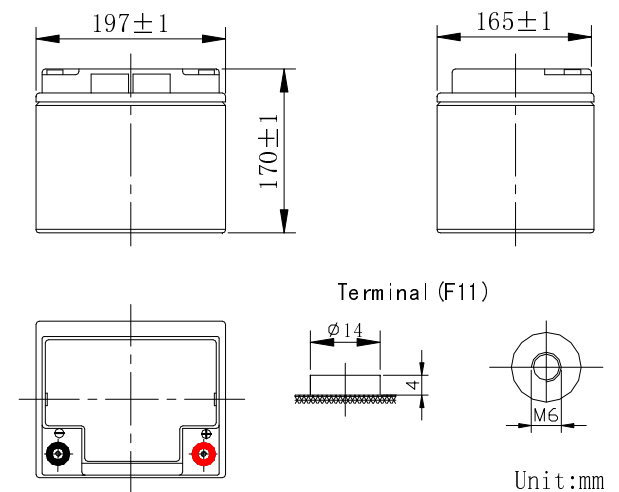


## Dimensions

	Length	Width	Height	Total Height	Approx. Weight
<i>SI Units</i>	197mm	165mm	170mm	170mm	13.8Kg
<i>English Units</i>	7.76inch	6.50inch	6.69inch	6.69inch	30.4lbs

## Performance Characteristics

- Nominal Voltage: 12V
- Number of cell: 6
- Nominal Capacity 77° F(25°C): 10 hour rate (4.5A, 10.8V) 45Ah  
1 hour rate (34A, 9.6V) 34Ah
- Internal Resistance: Fully Charged battery 68° F(20°C) 6.1mΩ
- Self-Discharge: 3% of capacity declined per month at 20°C
- Operating Temperature Range: Discharge -20~60°C Charge -10~60°C Storage -20~60°C
- Max. Discharge Current 68° F(20°C): 450A (5S)
- Short Circuit Current: 1000A
- Charge Methods: Constant Voltage Charge 68° F(20°C)  
Cycle use: 14.4 ~ 14.7V Maximum charging current 11.3A  
Standby use: 13.6 ~ 13.8V





# UN45-12HX 12V45Ah

Rechargeable Products Sealed Lead Acid Battery

## Discharge Date

Constant Current Discharge Date(Amperes at 25°C)																							
End Voltage Per cell/V	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	1h	1.5h	2h	2.5h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.60	130	100	80	66.5	57.5	51	45.8	41.5	38.5	36	34	24.5	19.5	16.2	14	10.9	9	7.7	6.73	5.9	5.3	4.8	2.50
1.65	125	96	77	64	55.5	49.3	44.3	40.2	37.4	35	33.1	23.9	19	15.8	13.7	10.7	8.83	7.55	6.6	5.79	5.21	4.73	2.50
1.70	120	92	73.5	61.2	53.3	47.5	42.7	38.8	36.2	33.9	32.1	23.2	18.5	15.3	13.4	10.5	8.65	7.39	6.47	5.67	5.12	4.66	2.45
1.75	114	87.5	70	58.2	51	45.6	41	37.4	35	32.8	31	22.5	17.9	14.8	13	10.2	8.45	7.23	6.33	5.55	5.02	4.58	2.45
1.80	107	82.5	66	54.9	48.6	43.6	39.2	35.9	33.7	31.6	29.8	21.7	17.3	14.2	12.6	9.9	8.2	7.05	6.18	5.42	4.9	4.5	2.40

Constant Power Discharge Date(Watts per cell at 25°C)																							
End Voltage Per cell/V	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	1h	1.5h	2h	2.5h	3h	4h	5h	6h	7h	8h	9h	10h	12h
1.60	230	181	149	127	111	98.0	89.0	81.5	75.0	69.5	65.0	46.8	36.8	30.8	26.8	21.1	17.7	15.1	13.2	11.8	10.5	9.7	8.21
1.65	222	175	144	123	108	95.3	86.5	79.2	72.9	67.6	63.3	45.5	35.8	30.0	26.2	20.6	17.3	14.8	13.0	11.6	10.4	9.62	8.15
1.70	213	168	139	119	104	92.4	83.9	76.8	70.7	65.6	61.5	44.1	34.7	29.1	25.5	20.0	16.9	14.5	12.7	11.4	10.2	9.5	8.05
1.75	203	161	133	114	100	89.4	81.2	74.3	68.5	63.6	59.7	42.7	33.6	28.2	24.8	19.4	16.4	14.1	12.4	11.1	10.0	9.35	7.93
1.80	192	153	127	109	95.5	86.2	78.4	71.7	66.2	61.5	57.8	41.2	32.4	27.2	24.0	18.8	15.9	13.7	12	10.8	9.75	9.17	7.8

