UHR 27-12
12V 27AH
High Rated

Ultracell®
Quality in Every Language

UHR27-12

Awaiting Image

Physical Specification

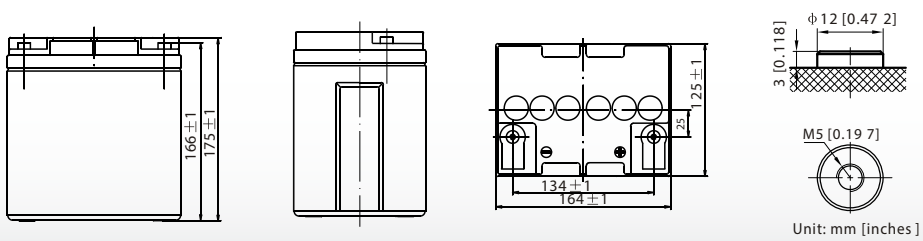
Part Number:	UHR27-12
Length:	164 ± 2 mm (6.46 inches)
Width:	125 ± 2 mm (4.92 inches)
Container Height:	166 ± 2 mm (6.54 inches)
Total Height (with terminal):	175 ± 2 mm (6.89 inches)
Approx Weight:	Approx 7.9 kg (17.4lbs)

Specifications

	Nominal Voltage	12V
	Nominal Capacity (20HR)	27AH
Terminal Type	Standard Terminal	F12
	Optional Terminal	-
Container Material	Standard Option	ABS
	Flame Retardant Option (FR)	ABS (UL94:VO)
Rated Capacity	27.0AH/1.35A	(20hr,1.80V/cell, 25°C / 77°F)
	26.1AH/2.61A	(10hr,1.80V/cell, 25°C / 77°F)
	23.75AH/4.75A	(5hr,1.75V/cell, 25°C / 77°F)
	21.96AH/7.32A	(3hr,1.75V/cell, 25°C / 77°F)
	18.6AH/18.6A	(1hr,1.60V/cell, 25°C / 77°F)
Max Discharge Current	540A (5s)	
Internal Resistance	Approx 10mΩ	
Discharge Characteristics	Operating Temp. Range	Discharge: -15 ~ 50°C (5 ~ 122°F)
		Charge: 0 ~ 40°C (5 ~ 104°F)
		Storage: -15 ~ 40°C (5 ~ 104°F)
	Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)
	Cycle Use	Initial Charging Current less than 7.2A.Voltage 14.4V~15.0V at 25 C(77 F)Temp. Coefficient -30mV/ C
	Standby Use	No limit on Initial Charging Current Voltage 13.5V~13.8V at 25 C(77 F)Temp. Coefficient -20mV/ C
	Capacity affected by Temperature	40°C (104°F) 103%
		25°C (77°F) 100%
		0°C (32°F) 86%
Design Floating Life at 20°C	12 + Years	
Self Discharge	Ultracell batteries may be stored for up to 6 months at 25°C(°77F) and then a refresh charge is required. For higher temperatures the time interval will be shorter.	

Dimensions

F12 Terminal



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NCP ISO9001 VdS PG CE CE 1188 UL MH 29410

Constant Power Discharge (Watts/Cell) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	121.5	93.3	76.8	65.3	51.0	38.9	31.7	18.9	13.9	11.0	9.18	7.91	6.26	5.22	2.74
1.80V/cell	137.1	102.2	82.2	68.4	53.6	40.8	33.4	19.8	14.3	11.3	9.45	8.13	6.42	5.33	2.77
1.75V/cell	154.5	108.1	86.6	72.3	55.3	41.7	34.1	20.2	14.6	11.5	9.55	8.23	6.52	5.42	2.82
1.70V/cell	167.8	114.3	89.2	74.2	56.6	42.6	34.8	20.5	14.8	11.7	9.72	8.39	6.61	5.47	2.85
1.67V/cell	177.1	118.7	92.8	76.3	57.9	43.4	35.5	20.8	15.0	11.8	9.89	8.53	6.70	5.54	2.89
1.60V/cell	181.9	121.3	94.8	78.2	59.3	44.0	35.9	21.0	15.2	12.0	10.0	8.62	6.77	5.61	2.94

Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	62.5	47.7	39.0	33.0	25.7	19.5	15.8	9.40	6.86	5.44	4.51	3.88	3.05	2.54	1.32
1.80V/cell	71.2	52.8	42.2	34.9	27.2	20.6	16.8	9.88	7.12	5.61	4.67	4.01	3.15	2.61	1.35
1.75V/cell	81.1	56.4	44.8	37.3	28.3	21.3	17.3	10.2	7.32	5.74	4.75	4.08	3.22	2.66	1.38
1.70V/cell	89.1	60.3	46.8	38.6	29.2	21.9	17.7	10.4	7.47	5.88	4.87	4.19	3.29	2.71	1.40
1.67V/cell	94.8	63.0	48.9	40.1	30.1	22.5	18.2	10.6	7.62	5.98	4.98	4.28	3.34	2.75	1.43
1.60V/cell	98.5	65.1	50.5	41.5	31.1	23.0	18.6	10.8	7.76	6.12	5.10	4.37	3.41	2.81	1.47

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