

Powerful and Durable

# ROCKET

## ESG-400

## ESG series

The ESG range of VRLA batteries offers outstanding performance including a 15+ year design life and a cycle life in excess of 1200 cycles to 80% DOD. Built to the highest standards and compliant with the latest IEC60896-21/22 standard this range also offers 100% capacity out-of-the-box and is capable of handling deep discharges for complete peace of mind. The use of flexible connectors and the ability to be installed both horizontally and vertically allows for multiple installation possibilities. This robust design uses the latest AGM technology to create a range that is suitable for many applications including both fixed and mobile telecoms, UPS, utilities and solar.



### Specifications

Battery Model	ESG-400			
Nominal Voltage	2V			
Capacity ( 25°C)	10HR (40A, 1.80V)	3HR (100A, 1.80V)		1HR (220A, 1.75V)
	400AH	300AH		220AH
Dimensions	Length	Width	Height	Total Height
	166mm	184.5mm	360.5mm	372mm
Approx. Weight	26kg			
Internal Resistance	0.35m Ω			
Max Charge Current Allowed	100A			
Charge Voltage (25°C)	Cycle use		Float use	
	2.35V/cell		2.25V/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 Torque	15 ± 1.0Nm			
Container Material	ABS (V0 optional)			

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

F. V/Time	5min	15min	30min	1h	2h	3h	5h	6h	8h	10h	24h
1.60V	666.6	558.3	413.4	261.4	154.0	113.0	76.7	66.1	52.7	43.8	19.5
1.65V	615.9	520.5	396.0	247.9	150.5	110.2	74.8	65.3	52.0	43.3	19.4
1.70V	575.7	488.0	364.3	236.8	144.9	107.1	74.1	64.4	51.1	42.7	19.3
1.75V	548.6	462.0	338.6	225.7	139.9	103.8	72.1	63.4	50.5	42.1	19.0
1.80V	527.6	435.6	316.8	211.5	133.8	100.6	70.4	61.8	49.5	41.1	18.7
1.83V	490.8	409.0	301.6	198.0	127.8	97.3	68.7	60.7	48.6	40.2	18.3
1.85V	467.2	386.3	282.5	190.9	120.8	95.4	68.0	59.8	48.1	40.0	18.1
1.88V	434.3	352.2	265.3	182.8	118.1	93.5	67.3	58.9	47.5	39.7	17.9
1.90V	401.8	326.6	242.4	169.5	113.3	89.5	65.5	57.6	46.3	38.6	17.7
1.94V	361.3	290.9	214.5	150.5	102.3	82.3	60.7	53.5	43.2	36.4	17.0

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

F. V/Time	5min	15min	30min	1h	2h	3h	5h	6h	8h	10h	24h
1.60V	1133.2	949.1	755.7	538.6	347.5	257.4	170.0	145.2	113.5	92.7	42.5
1.65V	1077.8	910.8	714.8	497.6	318.8	241.6	164.1	140.6	109.3	90.4	41.5
1.70V	1036.2	878.5	697.0	473.9	309.5	233.0	160.4	137.8	106.9	87.8	40.2
1.75V	1003.9	845.5	673.2	455.4	298.6	224.4	156.4	134.6	103.0	86.5	39.6
1.80V	976.1	805.9	649.4	444.8	293.0	216.5	152.1	130.7	100.3	85.1	39.0
1.83V	922.7	768.9	612.5	429.0	281.2	211.2	148.9	126.7	98.3	83.5	38.3
1.85V	887.7	733.9	577.5	404.6	269.3	205.0	144.9	123.8	97.0	81.8	37.5
1.88V	838.2	679.8	537.0	380.2	250.3	198.0	140.2	119.3	94.4	79.9	36.6
1.90V	783.4	636.9	487.1	348.5	233.6	190.1	135.4	115.6	90.8	75.9	36.0
1.94V	708.2	570.2	436.4	308.9	215.9	176.6	128.3	110.9	87.1	72.6	35.0

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