



# VRLA Battery SPA 12-3.3

<b>Specifications</b>	<b>Nominal Voltage</b>	12 V				
	<b>Rated Capacity (25 °C)</b>	<b>20hr Rate (1,80V/cell)</b>	<b>10hr Rate (1,80V/cell)</b>	<b>5hr Rate (1,70V/cell)</b>	<b>1hr Rate (1,60V/cell)</b>	
		3,3 Ah	3,0 Ah	2,55 Ah	2,17 Ah	
	<b>Dimensions (mm) &amp; Weight (kg)</b>	<b>Length</b>	<b>Width</b>	<b>Height</b>	<b>Overall Height</b>	<b>Weight</b>
		134mm	67mm	61mm	67mm	1,40kg
	<b>Number / Type of Terminals</b>	2 / F1				

## Technical Characteristics

<b>Design Life at 20°C</b>	5 years
<b>Eurobat Classification</b>	Standard Commercial
<b>Internal Resistance (Fully charged - 25°C)</b>	45 mΩ
<b>Short-circuit current</b>	160 A
<b>Max Charging Current</b>	1,3 A
<b>Min safe end Discharge Voltage</b>	1,60 V/cell
<b>Self discharge per month at 20°C</b>	3%
<b>Recommended Charging Voltage at 20°C</b>	Stand-by use (V/cell): 2,25 to 2,30 Cycle use (V/cell): 2,40 to 2,50
<b>Container Material</b>	ABS-UL94 HB
<b>Electrolyte Type</b>	Sulfuric Acid
<b>Type of plates / Alloy</b>	Flat plates / Lead-Calcium-Tin alloy
<b>Type of Separator</b>	Absorbant Glass Mat
<b>Valve Type / Operational Pressure</b>	Rubber / 1-3 psi (70-200 mbar)
<b>Operating Temperature Range</b>	-20 to +50°C
<b>Storage time at 20°C</b>	9 months

