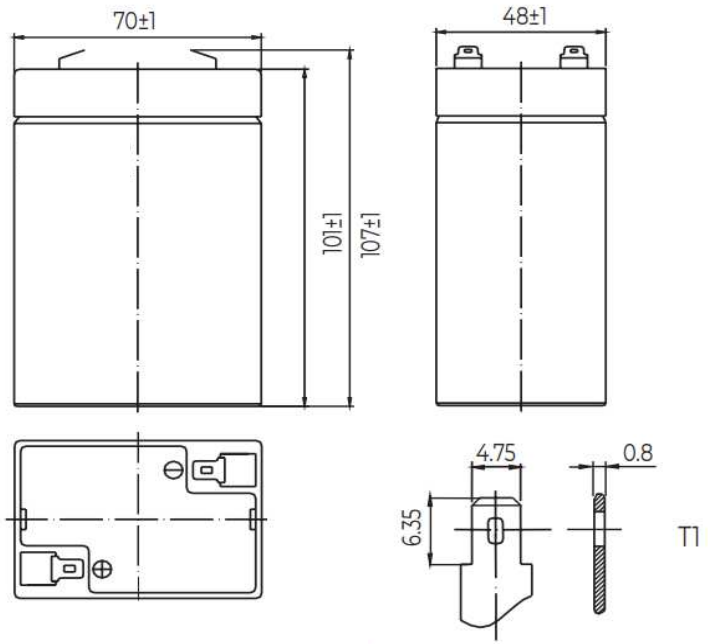
challenger

AA71FR - Fire Rated VRSLA Battery 6vdc 4ah

Characteristics

Nominal voltage		6V (3 cells per unit)
Nominal capacity at 20 hours rate/5.25V (25°C)		4Ah
Capacity (25°C)	10 Hours rate/5.25V	3.7Ah
	1 Hour rate/4.80V	2.4Ah
Terminal type		T1
Torque		N/A
Approx. internal resistance (25°C)		30.0mΩ
Dimensions	Length	70±1mm (2.76inch)
	Width	48±1mm (1.89inch)
	Height	101±1mm (3.98inch)
	Total height	107±1mm (4.21inch)
Design Life (stand-by)	JIS at 25°C	5 years
	Eurobat at 20°C	3-5 years
Weight		0.69kg (1.52lbs)±5%
Nominal operating temperature		25±3°C (77°F±5)
Operating temperature range	Discharge	-15°C~50°C (5°F~122°F)
	Charge	-10°C~50°C (14°F~122°F)
	Storage	-20°C~50°C (-4°F~122°F)
Float charging voltage at 25°C		6.80V~6.90V
Cyclic charging voltage at 25°C		7.25V~7.50V
Temperature compensation	Float charge	-9 mV/°C/Block
	Cycle charge	-15 mV/°C/Block
Max. charging current (A)		1.2A
Max. discharge current for 5 seconds		60A
Self discharge rate (25°C)		≤3%/month
Battery container ABS UL94-HB		V-0 optional

Dimensions & Terminal Type (mm)



Certification & Compliances

Compliant to: EUROBAT, RoHS, WEEE's and Reach.
Manufactured according to IEC 60896-21 / 22

challenger

AA71FR - Fire Rated VRSLA Battery 6vdc 4ah

Construction

Component	Positive Plate	Negative plate	Container	Separator	Electrolyte	Sefety valve	Terminal
Raw material	Lead dioxide	Lead	ABS	AGM	Sulfuric Acid	Rubber	Copper

Constant current discharge characteristics at 25°C

(Ampere/battery)

F.V/Time	5min	10min	15min	30min	60min	2hr	3hr	4hr	5hr	10hr	20hr
4.80V	15.3	9.68	7.56	4.26	2.62	1.43	0.99	0.82	0.78	0.38	0.2
4.95V	14.8	9.39	7.38	4.17	2.58	1.42	0.99	0.82	0.69	0.38	0.2
5.10V	14.2	9.00	7.11	4.05	2.52	1.41	0.98	0.81	0.69	0.38	0.2
5.25V	13.6	8.62	6.86	3.95	2.47	1.39	0.97	0.80	0.68	0.37	0.2
5.40V	12.8	8.13	6.50	3.80	2.39	1.36	0.94	0.78	0.66	0.37	0.2

Constant power discharge characteristics at 25°C

(Watts/battery)

F.V/Time	5min	10min	15min	30min	60min	2hr	3hr	4hr	5hr	10hr	20hr
4.80V	85.3	54.6	43.1	24.4	15.2	8.38	5.89	4.88	4.17	2.27	1.22
4.95V	82.7	53.0	42.1	23.9	14.9	8.33	5.85	4.85	4.14	2.26	1.21
5.10V	79.3	50.8	40.5	23.2	14.6	8.26	5.81	4.82	4.11	2.25	1.21
5.25V	75.9	48.6	39.1	22.6	14.3	8.14	5.77	4.79	4.08	2.24	1.20
5.40V	71.6	45.9	37.1	21.8	13.8	7.93	5.60	4.64	3.96	2.19	1.18