

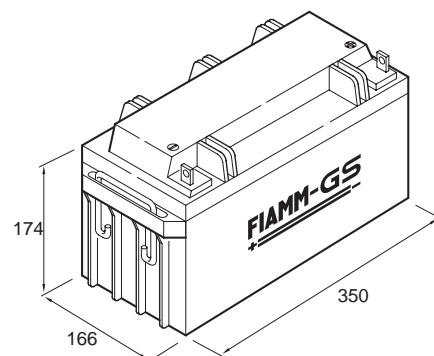
# TECHNICAL DATA SHEET OF FG 27004

# FIAMM-GS

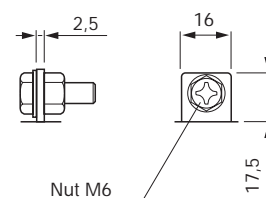
## Performance Specification for battery type FG 27004

## Battery dimensions (mm)

Nominal Voltage	12 Volts
Nominal Capacity	
at 20 hour rate	70,0 Ah
at 10 hour rate (7,0 A)	68,0 Ah
at 5 hour rate (14,0 A)	62,0 Ah
at 1 hour rate (70,0 A)	45,0 Ah
Dimension (mm)	Length=350, Width=166, Height=174
Approximate weight	24,0 kg
Energy Density	95 Wh/l.
Specific Energy	40 Wh/kg
Internal Resistance (Fully charged battery)	4 mΩ
Maximum discharge current using standard terminals	420 A
Maximum short-duration discharge current	1050 A
Recommended charging tension (temperature=20°C)	
floating use: 13,5-13,8 V	cyclic use: 14,4-15,0 V
Thermal compensation factor	
floating use: -18mV/°C	cyclic use: -30mV/°C
Maximum charging current	17,5 A
Terminals	Bolt and Nut M6
Vibration Test (2000 cycles/minute, 2,55 mm excursion, 2 hours)	No loss in capacity or performance
Shelf life - % of nominal capacity at 20°C	
1 month	97%
3 months	91%
6 months	83%
Storage temperature	-20°C to 40°C
Operative temperature Range	
Charge	0°C to 40°C
Discharge	-20°C to 50°C
Case material	Acrylonitrile-Butadiene-Styrene
	Standard Case: According to UL-94 HB
	Also Available: According to UL-94 V0
Life expectancy (Stand-by)	3 to 5 years according to Eurobat standards



## Terminal type



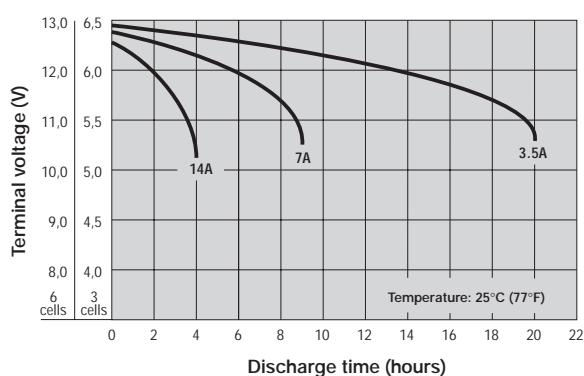
## Constant Power Discharge Table (Watt)

Time	5'	10'	15'	20'	30'	45'	1h	2h	3h	5h	10h	20h
1,8V/Cell	1996,7	1506,0	1227,8	1045,5	816,6	624,1	509,6	302,0	218,1	142,6	78,5	42,7
1,75V/Cell	2139,5	1582,3	1277,5	1081,1	837,9	636,2	517,4	304,4	219,3	143,0	78,7	42,9
1,7V/Cell	2292,4	1662,5	1329,2	1117,9	859,8	648,5	525,4	306,9	220,4	143,5	78,9	43,2
1,65V/Cell	2381,9	1692,7	1343,0	1125,2	862,3	649,3	525,8	307,5	221,1	144,2	79,4	43,2
1,6V/Cell	2474,9	1723,5	1357,0	1132,5	864,9	650,1	526,3	308,1	221,9	144,9	79,8	43,3

## Constant Current Discharge Table (Ampere)

Time	5'	10'	15'	20'	30'	45'	1h	2h	3h	5h	10h	20h
1,8V/Cell	194	142	113	95	73	55	44	26	18,3	11,9	6,48	3,58
1,75V/Cell	210	150	119	99	75	56	45	26	18,2	11,8	6,46	3,58
1,7V/Cell	226	160	125	103	78	57	45	26	18,1	11,7	6,44	3,58
1,65V/Cell	236	164	127	105	78	57	46	26	18,2	11,7	6,47	3,58
1,6V/Cell	246	168	129	106	79	58	46	26	18,3	11,8	6,50	3,59

## Discharge time vs. discharge current



## Discharge time vs. discharge current

