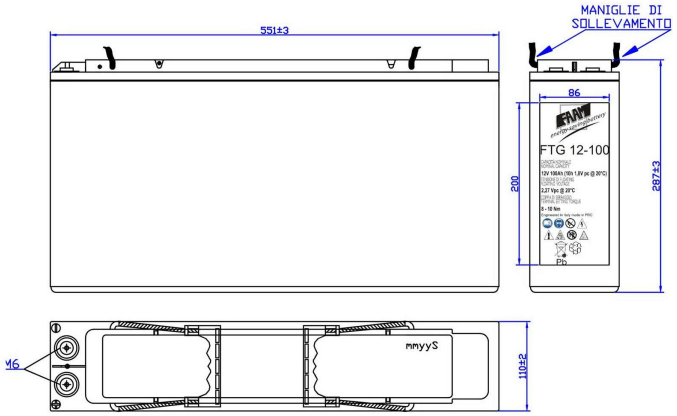
FTG 12-100

DIMENSIONAL FEATURES

Nominal Voltage Nominal Capacity (10 hours)		12V 100Ah (1,80Vpc) a 20°C
Dimensions	Lenght Width Total height	551 ±3mm 110 ±2mm 287 ±3mm
Technical drawing n°4 00411-0		Weight 39 Kg ± 5%
Screw terminals: M6 Material: brass		

Stationary battery sealed regulated with valves
Material of box: ABS black color
Material of lid: ABS black color
Positive tubular plates and negative flat plates with melted grids Pb/Ca/Sn
Separators microporous
Tecnologiy GEL VRLA front terminal
Standards: CEI EN 60896 Parti 21 e 22



Maintenance voltage at 20°C 2,27±0,02V/cell
Voltage of boost charging 2,40±0,02V/cell
Temperature of exercise: 20°C±3°C (recommended)
Maximum working temperature: -40°C / 50°C
Tightening torque: 8-10 Nm
Maximum charging current allowed: 20A
Maximum discharging current: 800A

ELECTRIC FEATURES

Characteristics

Capacity	10hours(1,80Vpc fin at 20°C) 8hours(1,75Vpc fin at 20°C) 3hours(1,70Vpc fin at 20°C) 1hour(1,60Vpc fin at 20°C)	100,0 Ah 96,8 Ah 78,6 Ah 61,1 Ah
Temperature influence on the capacity (10h)	40°C 20°C 0° C	102% 100% 85%
Internal Resistance	Ri: 6,5 mΩ ±10%	SCC I_{SC}: / ±10%
Charging Voltage – Cyclic use	Initial Current less of 20A Voltage 14,4~15,0 V at 20°C Temperature coefficient -30 mV/°C	
Charging Voltage – Standby use	No limit on the initial charging current Voltage 13,5~13,8 V at 20°C Temperature coefficient -18mV/°C	

Discharge Curves @ 20°C (68 °F)

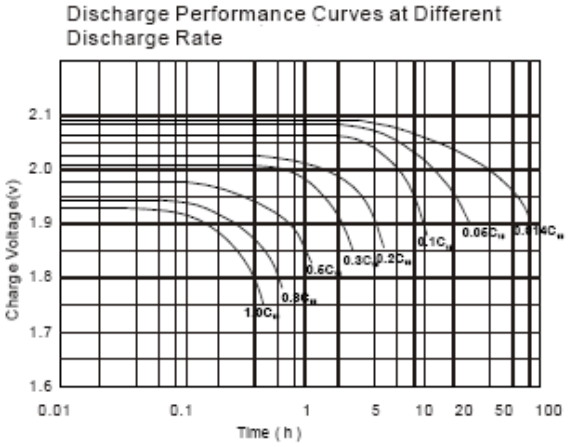


Table of discharge at constant current (Amp) and constant power (Watt/cell) at 20°C

Time		30min	60min	120min	180min	300min	600min	1200min
9,6V	A	89,2	61,1	37,1	27,7	18,8	10,7	5,65
	W	163,9	115,8	70,9	53,3	36,6	21,1	11,2
10,2V	A	82,2	57,4	34,7	26,2	18,0	10,3	5,53
	W	154,1	110,0	67,0	50,8	35,2	20,5	11,0
10,8V	A	71,4	51,0	31,9	24,1	16,9	10,0	5,35
	W	136,3	98,8	62,1	47,0	33,2	19,9	10,7

21-07-2015