

TECHNICAL DATASHEET

NM12V190FT

Front terminal AGM VRLA battery

NORDMAX™

Technical data

General

Nominal voltage	12 V (6 cell per unit)
Nominal capacity (C10)	190 Ah
Length	555 mm
Width	125 mm
Total Height	316 mm
Approx. Weight	59,2 kg
Terminal	M8 thread female, brass
Short circuit current	3 150 A (IEC 60 896 -21/22)
Internal resistance	3,9 mΩ
Container material	Shock resistant ABS FR; flammability class UL94 V0
EUROBAT	Very long Life 12+ years

Charging

Float charge @ 20 °C	2,27 V per cell
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Temperature

Operating temperature	-20 to 60 °C (15 to 25 °C recommended)
Storage temperature	-20 to 40 °C
Self discharge	Less than 2% per month at 20°C

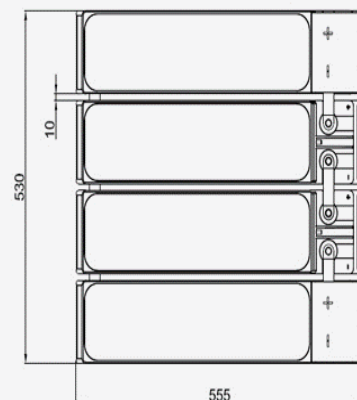
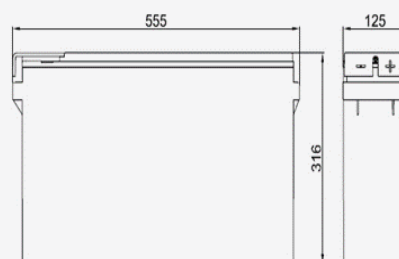
Capacity affected by temperature

40 °C	102 %
25 °C	100 %
0 °C	85 %
-15 °C	65 %



- Extremely long float life performance
- Stationary and reserve power applications
- EUROBAT design life definition: Very long Life 12+ years
- Fully recyclable product

Dimensions



NORDMAX

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Performance characteristics

Discharge performance at constant current discharge (Ah) for battery NM12V190FT at 20°C

Uf, Vpc	5 min	15 min	30 min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1,6	40,0	68,0	98,0	119,3	138,9	152,6	162,5	170,2	176,1	187,9	195,7	209,4
1,65	39,0	68,0	97,0	118,8	138,3	152,0	161,7	169,5	175,4	187,0	194,8	208,2
1,7	39,0	68,0	97,0	118,2	137,6	151,2	160,9	168,5	174,4	186,0	193,8	207,3
1,75	38,0	67,0	96,0	117,0	136,2	149,7	159,2	167,0	172,7	184,3	191,9	205,2
1,8	38,0	67,0	95,0	115,9	134,9	148,2	157,7	165,3	171,0	182,4	190,0	203,3
1,85	37,0	65,0	93,0	113,1	131,5	144,4	153,9	161,1	166,8	177,8	185,3	198,2

Discharge performance at constant current discharge (A) for battery NM12V190FT at 20°C

Uf, Vpc	5 min	15 min	30 min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1,6	481,0	274,0	196,0	119,3	69,4	50,9	40,6	34,0	29,4	23,5	19,6	10,5
1,65	473,0	273,0	195,0	118,8	69,2	50,7	40,4	33,9	29,2	23,4	19,5	10,4
1,7	465,0	271,0	194,0	118,2	68,8	50,4	40,2	33,7	29,1	23,3	19,4	10,4
1,75	461,0	269,0	192,0	117,0	68,1	49,9	39,8	33,4	28,8	23,0	19,2	10,3
1,8	456,0	266,0	190,0	115,9	67,5	49,4	39,4	33,1	28,5	22,8	19,0	10,2
1,85	445,0	259,0	185,0	113,1	65,7	48,1	38,5	32,2	27,8	22,2	18,5	9,9

Discharge performance at constant power discharge (W per cell) for battery NM12V190FT at 20°C

Uf, Vpc	5 min	15 min	30 min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1,6	962,0	547,0	391,0	238,6	138,9	101,7	81,2	68,1	58,7	47,0	39,1	20,9
1,65	935,0	546,0	390,0	237,5	138,3	101,3	80,9	67,8	58,4	46,7	39,0	20,8
1,7	928,0	543,0	388,0	236,4	137,6	100,3	80,5	67,4	58,1	46,5	38,8	20,7
1,75	921,0	538,0	384,0	234,1	136,2	99,3	79,6	66,8	57,6	45,9	38,4	20,5
1,8	912,0	532,0	380,0	231,8	134,9	98,8	78,9	66,1	57,0	45,6	38,0	20,3
1,85	889,0	518,0	371,0	226,1	131,5	96,3	77,0	64,4	55,6	44,5	37,1	19,8

Temperature correction factor of capacity at constant current discharge

Discharge time	-10 °C	0 °C	10 °C	15 °C	20 °C	25 °C	30 °C	35 °C	40 °C	45 °C
From 5 to 59 minutes	0,70	0,80	0,90	0,95	1,00	1,05	1,10	1,13	1,15	1,16
From 1 to 20 hours	0,82	0,88	0,94	0,97	1,00	1,03	1,05	1,07	1,08	1,10

Battery charge conditions at 20°C constant voltage and limited current (IU)

Charge current limit	Float charge voltage	Equalization charge voltage	Boost charge voltage
0.1 – 0.25C10 A Recommended: 0.20C10 A	2.27 V per cell at 20°C; Temperature correction: -3mV / cell / °C	"2.32 V per cell at 20 °C Recommended: every 3 months for 24h during long time float operation"	2.40 V per cell at 20°C; Temperature correction: -4mV / cell / °C
Float application: 0.20C10 A / 2.27 V per cell at 20°C		Cycling applications: 0.20C10 A / 2.40 V per cell at 20°C Recharge Ah input at least 105% from previous discharge Ah	