

test 12-V car starter batteries STIFTUNG WARENTEST once again confirms MOLL top quality

	Weighting	Berger Power-Block	OPEL Art. Nr. 62 01 271	Moll M3 plus / K2	Banner Power Bull	ATU/Arktis Qualitäts-batterie	Exide X-treme ² XC 08	Bosch Silver	Fiamm Titanium Plus	ATU/Arktis High Tech ⁴⁾	Ford Motorcraft Calcium Plus
approx. price range in Euro				139 to 152	142 to 156	60 to 90	109 to 134		75 to 86	75 to 100	
approx. average price in Euro		123	127	145	149	80	122	133	81	87	152
capacity in Ah / cold start current in A (EN)		71 / 680 ¹⁾	70 / 800 ²⁾	71 / 590 ³⁾	74 / 700	74 / 680	70 / 540	70 / 640	70 / 680	71 / 680	71 / 680 ³⁾
approx. length / width / height in cm		28 x 18 x 18	28 x 18 x 17	28 x 18 x 17	28 x 18 x 18	28 x 18 x 18	28 x 18 x 18	28 x 18 x 18	28 x 18 x 18	28 x 18 x 18	28 x 18 x 18
identical models		Exide X-treme ² XC 08 is the same construction as Deta Senator 2 DC08 (122 Euro). Bosch Silver is the same construction as Varta Blue dynamic (133 Euro).									
test QUALITY EVALUATION	100 %	VERY GOOD (1,7)	GOOD (1,9)	GOOD (2,2)	ACCEPTABLE (2,8)	ACCEPTABLE (2,9)	ACCEPTABLE (3,0)	ACCEPTABLE (3,1)	SATISFACTORY (4,4)	UNSATISFACTORY (5,0)	UNSATISFACTORY (5,0)
fulfilment of performance data	30 %	good (1,8)	good (2,2)	good (2,1)	acceptable (3,3) ^{*)}	satisfactory (3,4) ^{*)}	satisfactory (3,5) ^{*)}	satisfactory (3,6)	satisfactory (2,6)	unsatisfactory (5,0) ^{*)}	unsatisfactory (5,0) ^{*)}
capacity		+	○	+	+	++	⊖ ^{*)}	○	+	- ^{*)}	- ^{*)}
cold start current		+	++	+	⊖ ^{*)}	⊖ ^{*)}	+	⊖ ^{*)}	○	⊖	○
application features	35 %	very good (1,2)	very good (1,4)	good (2,0)	very good (1,2)	very good (1,3)	very good (1,3)	very good (1,4)	very good (1,4)	acceptable (2,6)	satisfactory (4,5)
water consumption		++	+	○	++	++	++	+	++	+	+
charge acceptance		++	++	++	++	++	++	++	++	⊖	- ^{*)}
vibration resistance		++	++	++	++	++	++	++	++	○	+
deep discharge		○	+	+	+	+	○	+	○	○	⊖
safety against electrostatic discharge		++	++	+	++	++	++	++	+	++	+
durability	35 %	good (2,1)	good (2,2)	good (2,4)	good (1,9)	good (2,0)	good (2,0)	acceptable (2,6)	unsatisfactory (4,9) ^{*)}	unsatisfactory (5,0)	unsatisfactory (4,9)
cyclic stability		++	++	+	++	++	++	○	- ^{*)}	- ^{*)}	⊖
plate corrosion		+	○	+	○	+	○	+	-	○	-
tendency to acid layering		⊖	+	○	○	○	○	+	-	⊖	-

Evaluation explanation of the test results: ++ = very good (0,5-1,5), + = good (1,6-2,5), ○ = acceptable (2,6-3,5), ⊖ = satisfactory (3,6-4,5), - = unsatisfactory (4,6-5,5).

In case of same quality evaluation, listing in alphabetical order.

***) Causes downgrading**

1) Capacity changed to 72 Ah in the meantime.

2) Supplier information 400 A(DIN) = 800 A(EN) is not correct, calculated cold start current according to EN approx. 650A.

3) Supplier information according to SAE standard.

4) Discharge model according to supplier. Replaced by following model with 70 Ah, 640 A.

test 11/07

Only 3 of 10 tested starter batteries have been rated "GOOD" - MOLL is among the winners!

mOLL
future orientated
battery technology