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SERVICE DATA

Ignition System

Ignition Coil

Item	Specification
Rated Voltage (V)	14
Operating Voltage (V)	4 - 16

Spark plug

Item	Specification
Type	SILZKR7A9G
Gap	1.0 - 1.1 mm (0.0394 - 0.0433 in.)
Insulation resistance (MΩ)	10 or more

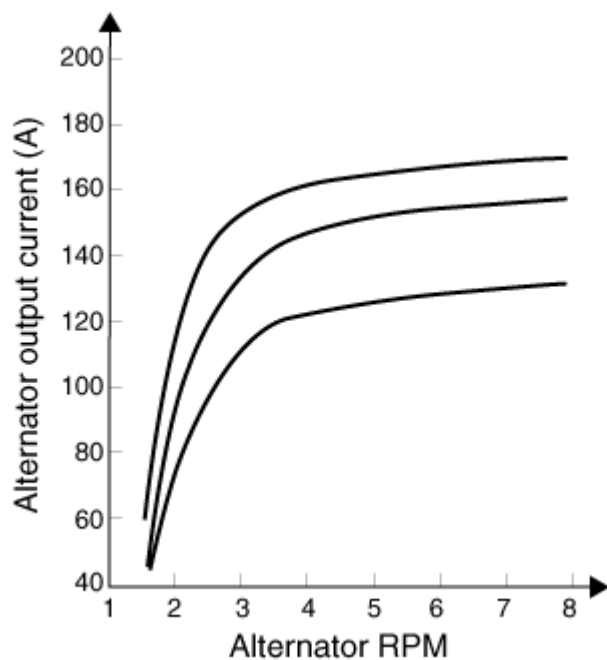
Condenser

Item	Specification
Capacitance (uF)	0.47 [1KHz]
Insulation resistance (MΩ)	1,000 [DC 500 V/1 Min]

Charging System

Alternator

Item	Specification	
Rated voltage	13.5V , 180A	
Speed in use	0 - 18,000rpm	
Voltage regulator	IC Regulator built in type	
Default regulated voltage (V)	Regulator (external mode)	10.6 - 16
	Regulator (internal mode)	14.2 - 14.8
Pin	1	



Battery

▷ CMF90L-DIN

Item	Specification
Model type	CMF90L-DIN
Capacity [20HR/5HR] (AH)	90/72
Cold Cranking Amperage (A)	740 (SAE) / 740 (EN)
Reserve Capacity (Min)	170

▷ MF90L-DIN : Operable

Item	Specification
Model type	MF90L-DIN
Capacity [20HR/5HR] (AH)	90/72
Cold Cranking Amperage (A)	740 (SAE) / 740 (EN)
Reserve Capacity (Min)	170

▷ AGM90L-DIN

Item	Specification
Model type	AGM90L-DIN
Capacity [20HR/5HR] (AH)	90/72
Cold Cranking Amperage (A)	850 (SAE) / 850 (EN)
Reserve Capacity (Min)	160

Information

- Model type description

• Battery type notation : $\frac{\square\square\square}{\textcircled{1}} \frac{\square\square}{\textcircled{2}} \frac{\square}{\textcircled{3}} - \frac{\square\square\square}{\textcircled{4}}$

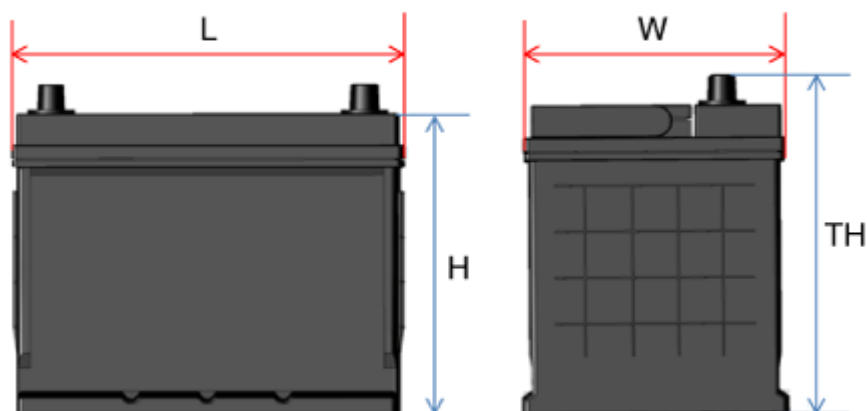
- ① : Battery specification
 - CMF : Closed Maintenance Free
 - MF : Maintenance Free
 - AGM : Absorbent Glass Mat
- ② : Battery capacity (20HR)
 - 68 : 68AH
- ③ : Terminal location
 - L : Positive terminal is left
 - R : Positive terminal is right
- ④ : Battery type
 - DIN: Deutsche Industric Normen
 - BCI: Battery Council International

- Cold Cranking Ampere (CCA): A rating used in the battery industry to define a battery's ability to start an engine in cold temperatures.
 - The maximum current that a fully charged battery can deliver at -18 °C (-0.4 °F) for 30 seconds while maintaining a voltage of at least 7.2 volts for a 12-volt battery.
 - The higher the CCA rating, the greater the starting power of the battery.
- RESERVE CAPACITY (RC): A battery industry rating that defines the battery's ability to power a vehicle with an inoperative alternator or fan belt.
 - The rating is the number of minutes a battery at 26.7 °C(80 °F) can be discharged at 25 amps and maintain a voltage of 10.5 volts for a 12 volt battery.
 - The higher the reserve rating, the longer your vehicle can operate should your alternator or fan belt fail.

Information

BCI Type

Capacity (5HR/20HR)	Length	Width	Height	Total Height
	L (mm)	W (mm)	T (mm)	TH (mm)
28/35	188 - 192	126 - 130	198 - 202	218 - 222
32/40	194 - 198	133 - 137	199 - 203	223 - 227
36/45	203 - 207	173 - 177	200 - 204	221 - 225
44/55	213 - 217	173 - 177	198 - 202	218 - 222
48/60	228 - 232	173 - 177	200 - 204	221 - 225
54/68	258 - 262	173 - 177	198 - 202	220 - 224
56/70	258 - 262	173 - 177	198 - 202	223 - 227
64/80	274 - 278	170 - 174	198 - 202	221 - 225
70/88	349 - 353	172 - 176	186 - 200	183 - 187
72/90	300 - 304	170 - 174	200 - 204	221 - 225
76/95	294 - 298	172 - 176	198 - 202	220 - 224
80/100	326 - 330	170 - 174	203 - 207	225 - 229

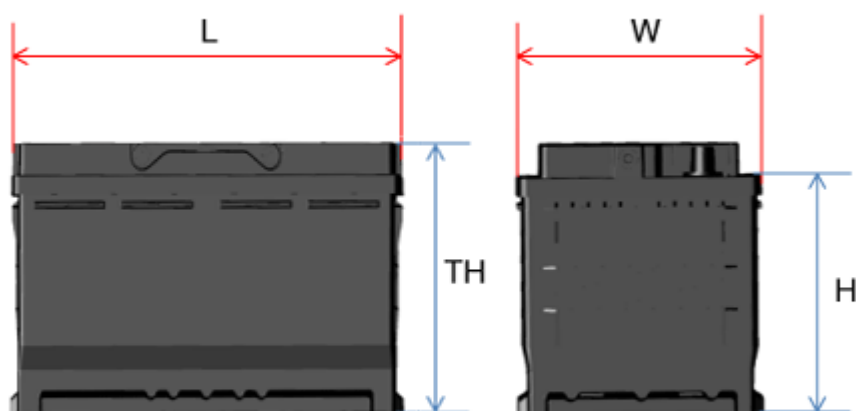


DIN Type

Capacity (5HR/20HR)	Length	Width	Height	Total Height
	L (mm)	W (mm)	T (mm)	TH (mm)
36/45	205 - 207	173 - 175	164 - 168	188 - 190
48/60	205 - 207	173 - 175	164 - 168	188 - 190
54/68	205 - 207	173 - 175	164 - 168	188 - 190
64/80	205 - 207	173 - 175	164 - 168	188 - 190
72/90	205 - 207	173 - 175	164 - 168	188 - 190
80/100	205 - 207	173 - 175	164 - 168	188 - 190
88/110	205 - 207	173 - 175	164 - 168	188 - 190

AGM DIN Type

Capacity (5HR/20HR)	Length	Width	Height	Total Height
	L (mm)	W (mm)	T (mm)	TH (mm)
40/50	205 - 207	173 - 175	164 - 168	188 - 190
48/60	227 - 229	173 - 175	164 - 168	188 - 190
56/70	276 - 278	173 - 175	164 - 168	188 - 190
64/80	312 - 314	173 - 175	164 - 168	188 - 190
72/90	351 - 353	173 - 175	164 - 168	188 - 190
84/105	392 - 394	173 - 175	164 - 168	188 - 190



Starting System

Starter

[NON-ISG]

Item		Specification
Rated voltage		12 V, 1.7 kW
The number of pinion teeth		12
Performance [No-load, 11.5 V]	Ampere	Max. 105 A
	Speed	Min. 2,800 rpm

[ISG Only]

Item		Specification
Rated voltage		12 V, 2.0 kW
The number of pinion teeth		12
Performance [No-load, 11 V]	Ampere	Max. 135 A
	Speed	Min. 3,200 rpm

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