<table>
<thead>
<tr>
<th>TYPE</th>
<th>AAG</th>
<th>AAG compact</th>
<th>AAK</th>
<th>AAK compact</th>
<th>AAN compact</th>
<th>AAT</th>
</tr>
</thead>
</table>

*ALTERNATORS*

Iskra Avtoelektrika d.d.
**Applications**
- for small tractors
- for small agricultural and construction machinery
- for stationary engines
- for passenger cars

**Features**
- high specific power and efficiency
- small dimensions
- low weight
- low noise level
- higher protection against accidental contact
- long life operation

**Design**
The alternator is a three-phase, 12-pole synchronous self-excited generator with two internal fans and built-in regulator and rectifier. The compact construction and carefully selected materials assure improved technical characteristics and long life, service free, operation even under the harshest conditions of high and low temperatures, salt spray, humidity, water, dust, vibrations, aggressive liquids.

**Stator**
The stator has a three-phase winding on a laminated pack. The selected design and high filing factor of the stator slots provides improved cooling, low noise and high output characteristics.

**Cooling**
Two internal fans positioned on the claw poles provide more effective cooling with lower noise and higher protection against accidental contacts as well as higher output.

**Rotor**
The rotor field winding fixed between the claw poles provides excitation of the alternator through slip rings. Smaller slip rings provide higher brush durability, even at high speeds. Encapsulated slip rings offer increased durability of the alternator.

**Rectifier**
Construction of the rectifier with press fit Zener diodes provides low temperatures of the rectifier diodes, high resistance to vibrations and protections of loads on the vehicle against alternator overvoltages. The installation of the rectifier on the outer side of the rear end bracket ensures flexible arrangement of all types of terminals.

**Regulator**
The regulator together with the brush holder is assembled on the rear end bracket. Regulators use microelectronic technology and are mono or multifunction. The highest quality of brushes ensures long life of the alternator.

**Brackets - Bearings - Pulleys**
Brackets, bearings and pulleys are made according to the customers’ requirements. A range of special sealed bearings makes it possible to design alternators for specific installations, operating in the harshest conditions whilst achieving long, maintenance free life.

**Electrical Terminals**
Electrical terminals are according to the requirements of the customers.
**CROSS SECTION**

Pos 1... Pulley  
Pos 2... Drive end bearing  
Pos 3... Drive end bracket  
Pos 4... Stator with winding  
Pos 5... Rotor  
Pos 6... Rear bracket  
Pos 7... Rear bearing  
Pos 8... Protective cover  
Pos 9... Terminals B+, B-, D+, W (monofunction regulator)  
B+, L, DFM (multifunction regulator)  
Pos 10... Brush holder with voltage regulator  
Pos 11... Brush  
Pos 12... Slip rings  
Pos 13... Rectifier with diodes

**CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Current @ 1800 RPM</th>
<th>Current @ 6000 RPM</th>
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</thead>
<tbody>
<tr>
<td>14V 45A</td>
<td>1150</td>
<td>22</td>
</tr>
<tr>
<td>14V 55A</td>
<td>1250</td>
<td>22</td>
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<td>14V 65A</td>
<td>1350</td>
<td>20</td>
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<td>14V 75A</td>
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</table>

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Current @ 1250 RPM</th>
<th>Current @ 1400 RPM</th>
<th>Current @ 1450 RPM</th>
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</thead>
<tbody>
<tr>
<td>28V 30A</td>
<td>1250</td>
<td>12</td>
<td>10</td>
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<tr>
<td>28V 35A</td>
<td>1400</td>
<td>10</td>
<td>8</td>
</tr>
<tr>
<td>28V 40A</td>
<td>1450</td>
<td>8</td>
<td>6</td>
</tr>
</tbody>
</table>

**CONNECTION DIAGRAMS**

Monofunction regulator  
Multifunction regulator
DISTRIBUTION NETWORK

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