



SafeStart 600 series

Characteristics: Oil heater

DEFA no: 601-699

The heaters are used for air-cooled engines and/or in combination with an engine heater for the coolant. For large vehicles with ample-sized oil pans, the heated part (A) of the element is placed directly in the oil

Oil heaters can be divided into two different groups:

- Heaters for which the element is installed in place of the lid or cap on the oil pan.
- Heaters which are installed in the threaded hole in the oil pan.

Also see Series 800 for indirect heating of the oil inside the oil pan.

DEFA AS is conforming to the requirements of both ISO 9001-2008, ISO 14001:2004 and OHSAS 18001:2007. In addition to this, our engine heaters and cables are conforming to the requirements of ISO/TS 16949:2002.

Item number

DEFA no.: 411600-411699.

Weight: Varies depending on diameter and size.
Up to 26-pack. Varies with the size of the heater.

Part of

Engine pre-heaters are supplied separately because of special adapted solutions for a variety of engines and vehicles.

Installation

Install the heater according to the enclosed installation guide.

ONLY Install the heater on vehicles listed in the installation guide.

Installing DEFA heaters must only be executed by authorized garages.

Use

Normal usage - DEFA engine heaters is dimensioned for "normal usage". DEFA defines "normal usage" as; 3 connections for 3 hours pr. 24 hour based upon 150 users days a year (5 months a year).

Professional usage - It is necessary to make a yearly function control and if necessary install a new heater to obtain necessary extent of service on emergency vehicles or power supplies where the heater is connected more or less 24/7. This yearly service cost will not be covered by DEFA AS.

Pulse power - Some car parking areas are using interval (pulse) power timers turning the power On and Off several times per hour. Using DEFA engine heater in suchlike parking facilities will not be considered as "Normal use" and claims will be declined.

Technical specifications

Voltage [V]	230
Power [W]	175-340
IP rating [IP]	44
Test and approval	EMKO-TUB(61)NO 293/91 EN 60335-1, EMKO-TSB(61) NO293A94

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