

HTL SERIES

(HTL02A/HTL04A)

ENGINE OIL HEATER

USER MANUAL



SMARTGEN (ZHENGZHOU) TECHNOLOGY CO., LTD.



SmartGen English trademark

SmartGen — make your generator *smart*

SmartGen Technology Co., Ltd

No.28 Jinsuo Road, Zhengzhou, Henan Province, China

Tel: +86-371-67988888/67981888/67992951

+86-371-67981000(overseas)

Fax: +86-371-67992952

Email: sales@smartgen.cn

Web: www.smartgen.cn

www.smartgen.cn

All rights reserved. No part of this publication may be reproduced in any material form (including photocopying or storing in any medium by electronic means or other) without the written permission of the copyright holder.

Smartgen Technology reserves the right to change the contents of this document without prior notice.

Table 1 Software Version

Table 1 delithate version					
Date	Version	Content			
2021-01-27	1.0	Original release.			



CONTENTS

1	OVERVIEW	.4
2	PERFORMANCE AND CHARACTERISTICS	.4
3	SPECIFICATION	.4
4	CONNECTIONS	.5
5	CASE AND INSTALLATION DIMENSIONS	.5





1 OVERVIEW

During cranking, if the outside temperature is lower than 4°C, engine lubricant may lose its lubricating properties, which can damage the engine. Engine oil heater should be installed to ensure normal starting and running of the engine when the outside temperature is lower than 4 °C.

HTL series engine oil heater adopt cast stainless steel inner pipes and end closure with high corrosion resistance.

This product is suitable for various engines with (2~110)L engine oil volume.

2 PERFORMANCE AND CHARACTERISTICS

- a) Stainless steel inner pipes and end closure with high corrosion resistance and solid features;
- b) The inner pipes have long service life with the benefit of the low power of the unit areas.
- c) All-in-one design, compact structure and small volume.

3 SPECIFICATION

Table 2 Standard Model Parameters

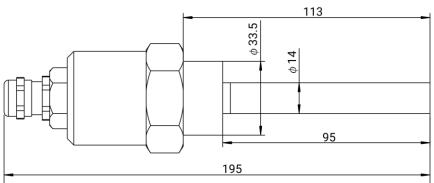
i adie 2 Standard Model Parameters					
Model	HTL02A	HTL04A			
Rated Power	238W	400W			
Rated Voltage	AC 240V				
Rated Current	1A	1.67A			
Engine Oil Volume	2~50L	50~110L			
Default Thermostat	Off: 50°C On: 35°C				
Insulating Resistance	≥50MΩ				
Electrical Strength	AC 1.5kV 1min Leakage Current≤3mA				
Installation Dimensions	Thread outer diameter range: Φ22-Φ33.5mm				
Max. Pressure	0.5MPa				
Protection Level	IP65				
	5 ~ 8 Hz: 17mm				
Vibration Resistance	8 ~100 Hz: a=4g				
Vibration Resistance	100-500 Hz: a=2g				
	IEC 60068-2-6				
	50 g, 11 ms, Half-sine Wave, complete shock tests from three				
Shock Resistance	directions, with a total of 18 shocks per test.				
	IEC 60068-2-27				
0 11: :	25 g, 16 ms, Half-sine Wave				
Collision	IEC 60255-21-2				
Case Dimensions	195mm×43mm×43mm	255mm×43mm×43mm			
Weight	550g	590g			



4 CONNECTIONS

- --- After open the back cover, please connect the wire according to the label **E N L** on the terminal, E: earth line, N: null line, L: live line.
- ---- Heat resisting power line is strongly recommended.
- --- Earth line must be soundly connected to earth.

5 CASE AND INSTALLATION DIMENSIONS



43

Unit: mm

Fig.1 - HTL02A Case and Installation Dimensions

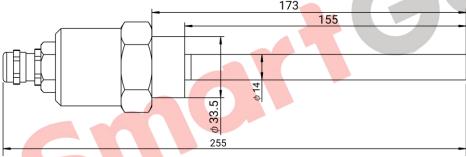




Fig.2 - HTL04A Case and Installation Dimensions
