

**Measurement-report****Antenna Gain**

Report Reference No.:	321211-TL7-2																			
VDE File No.:	281300-5980-0878/321211																			
Date of issue::	2025-05-21																			
Laboratory:	VDE Prüf- und Zertifizierungsinstitut GmbH																			
Laboratory Address.....:	Merianstrasse 28, 63069 Offenbach/Main; Germany																			
Applicant's name.....:	Andreas Stihl AG & Co. KG																			
Applicant's Address																				
Test item description.....:	Battery pack																			
Trademark.....:	Stihl																			
Manufacturer.....:	Andreas Stihl AG & Co. KG																			
Type reference(s).....:	AP 500 S																			
Ratings.....:	DC 36V																			
Method of correction	The correction value (G) was calculated from the difference of the radiated output power and the power level measured at the temporary antenna connector of the EUT into an artificial antenna. Calculation formula: $G = P_{\text{radiated}} - P_{\text{conducted}}$ with G: Correction value in dBi P_{radiated}: Radiated RF output power (e.i.r.p.) in dBm P_{conducted}: RF output power level, conducted (into 50 Ω) in dBm																			
Supplementary description	P _{conducted} was measured with the Power-meter connected to the temporary antenna connector of the UUT. For the conducted measurement the Burst-Average Value was recorded and compared to the maximum e.i.r.p.																			
Results	<table><tr><th>f / MHz</th><th>P_{conducted} / dBm</th><th>P_{radiated} / dBm</th><th>G Calculated</th></tr><tr><td>2402</td><td>-2,1</td><td>-9,8</td><td>-7,7</td></tr><tr><td>2440</td><td>-1,9</td><td>-9,5</td><td>-7,6</td></tr><tr><td>2480</td><td>-1,8</td><td>-9,5</td><td>-7,7</td></tr></table>				f / MHz	P _{conducted} / dBm	P _{radiated} / dBm	G Calculated	2402	-2,1	-9,8	-7,7	2440	-1,9	-9,5	-7,6	2480	-1,8	-9,5	-7,7
f / MHz	P _{conducted} / dBm	P _{radiated} / dBm	G Calculated																	
2402	-2,1	-9,8	-7,7																	
2440	-1,9	-9,5	-7,6																	
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Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):

Tested by (Name, Signature)	Hendrik Wissel	 (Authorization of test report)
Function	Testing engineer	

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Disclaimer:					
This test report contains the result of a singular investigation carried out on the product submitted. A sample of this product was tested to found the accordance with the thereafter listed standards or clauses of standards resp. The test report does not entitle for the use of a VDE Certification Mark and considers solely the requirements of the specifications mentioned below. Whenever reference is made to this test report towards third party, this test report shall be made available on the very spot in full length.					

List of attachments (including a total number of pages in each attachment):

Summary of testing: See verdict section.

Tests performed (name of test and test clause):

See verdict section.

Testing location:

Merianstrasse 28

63069 Offenbach/Main; Germany

Copy of marking plate:



Remark to the type designation by the manufacturer:

On the marking plate, with AP 600 S, the previous type designation is written. The designation has changed to AP 500.0S. Technically, there has been no change.