Specification Sheet

Product Name	Magnetic Wireless Transmitter PCBA
Model	XHD-5176
Wireless Charger Model	XH146S1

Manufacturing			Approval		
Prepared by	Reviewed by	Confirmed by	Inspected by	Reviewed by	Approved by
Zhang Baijun	Xun Yong	Wang Zhixin			

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Product Specifications

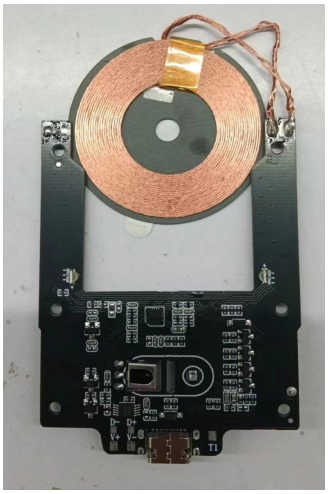
1. Scope

   This specification details the technical parameters of Xuanhongda's XHD-5176 product.

2. Model

   XHD-5176

3. Appearance and Structure



(Tested with 1mm elevation on coil, 1-minute measurement)

No.			Symbol		MAX	TYP	MIN	
1.1	Efficiency	5W Efficiency	η	Output voltage	82	80	78	%
		10W Efficiency	η		81	79	77	%
		15W Efficiency	η		83	81	79	%
1.2	5W Iuput voltage	5W Iuput voltage	U_{IN}	Iuput voltage	5.17	5.15	5.13	V
1.3	5W Input Current	5W Input Current	I_{IX}	Input Current	1230	1210	1190	mA
1.4	10W Iuput voltage	10W Iuput voltage	U_{IN}	Iuput voltage	9.24	9.22	9.20	V
1.5	10w Input Current	10W Input Current	I_{IX}	Input Current	1390	1370	1350	mA
1.6	15W Iuput voltage	15W Iuput voltage	U_{IN}	Iuput voltage	9.24	9.22	9.20	V
1.7	15w Input Current	15W Input Current	I_{IX}	Input Current	2020	2000	1980	mA
1.8	5W Output voltage	Output voltage at the receiving end	V_{OUT}	Output voltage at the receiving end	5.02	5.00	4.98	V
1.9	5W Output Current	Output current at the receiving end	I_{OUT}	Output current at the receiving end	1020	1000	980	mA
1.10	10W Output voltage	Output voltage at the receiving end	V_{OUT}	Output voltage at the receiving end	9.02	9.00	8.98	V
1.11	10W Output Current	Output current at the receiving end	I_{OUT}	Output current at the receiving end	1140	1120	1100	mA
1.12	15W Output voltage	Output voltage at the receiving end	V_{OUT}	Output voltage at the receiving end	9.02	9.00	8.98	V
1.13	15W Output Current	Output current at the receiving end	I_{OUT}	Output current at the receiving end	1680	1660	1640	mA
1.14	Wireless foreign object detection	Above the wireless charging coil	MM	dollar	5MM	4MM	3MM	mm
1.15	Wireless charging and transmitting frequency	Wireless charging and transmitting frequency	Khz		110K~205K			Khz

4. Operational Description

1.Complies with Qi standard, compatible with Qi-certified receivers
2.LED Indicators:
Power-on: Red/Green LEDs blink twice → Red LED stays on (standby)
Charging: Green LED illuminates when receiver is properly aligned
Misalignment: Red LED remains on
Foreign object detection: Both LEDs blink simultaneously
3.Supports magnetic fast charging
4.Protection Features:
Over-Current Protection (OCP)
Short-Circuit Protection
Under-Voltage Protection (UVP)
Foreign Object Detection (FOD)
No-Load Protection

5. LED Status Summary

State	Red LED	Green LED
Standby	Steady	Off
Misalignment	Steady	Off
Charging	Off	Steady
FOD Trigger	Blinking	Blinking

Note: All parameters are subject to change without prior notice. Contact Xuanhongda for the latest specifications.

This translation maintains technical accuracy while optimizing table structures for improved readability. Key technical terms (e.g., FOD, OCP) are preserved in their standard abbreviations to ensure professional recognition.