

SHENZHEN PROMAGTECH CO.,LTD | PUBLIC REDACTED EVIDENCE FILE

# 20 kW PFC Inductor - Redacted Inspection / Test Record

Date: 2026-06-02 Status: Redacted public inspection scope Company: SHENZHEN PROMAGTECH CO.,LTD Product family: Custom PFC boost flat wire inductor Application: EV DC charger PFC stage, 20 kW-class power module

## 1. Use Boundary

This document shows the inspection and test items used for a 20 kW-class PFC boost flat wire inductor review. Customer identity, commercial information, project code, and drawing details are removed or masked.

Final numeric values and pass/fail conclusions are confirmed by the approved sample record and project specification.

## 2. Redaction Scope

The following information is removed or masked:

Sensitive item	Public handling
Customer name	Replace with Redacted EV charger power module customer
Customer part number	Replace with Redacted
Customer project code	Replace with Redacted
Sales order / contract number	Remove
Customer drawing number	Replace with Redacted drawing reference
Customer engineer name	Remove
End-customer brand	Remove
Exact system model	Remove unless authorized

The following inspection information may be shown:

Evidence item	Reason
Inspection date	Shows traceable process when available
Sample code	Can be partially masked
Inspection items	Shows quality control scope
Acceptance logic	Shows how results are judged
Measured values	Confirmed by approved sample record
Inspector / reviewer role	Shows controlled process

## 3. Record Header

Field	Public / redacted value
Record title	Redacted Sample Inspection Record - 20 kW-class PFC Boost Inductor
Internal record no.	PMT-PFC-20KW-REDACTED-001

Customer	Redacted EV charger power module customer
Product	20 kW-class PFC boost flat wire inductor
Application	EV DC charger PFC stage
Sample stage	Engineering sample / pre-production sample
Inspection date	Redacted or project-specific
Inspector	QC role only, name optional
Reviewer	Engineering / quality role only, name optional
Publication status	Redacted public inspection scope

## 4. Inspection Checklist

This table shows the inspection scope without exposing customer data.

No.	Inspection item	Acceptance basis	Actual record	Result
1	Appearance check	No visible crack, deformation, loose winding, damaged insulation, or abnormal contamination	Project-specific record	Project-specific
2	Label / marking check	Sample mark matches released sample record	Project-specific record	Project-specific
3	Terminal / lead check	Terminal structure and fastening condition match drawing or sample requirement	Project-specific record	Project-specific
4	Mounting dimension check	Key dimensions match approved drawing tolerance	Project-specific record	Project-specific
5	Winding and insulation check	Winding, insulation layer, spacing, and fixation match process requirement	Project-specific record	Project-specific
6	Packaging check	Packaging prevents movement, terminal damage, and insulation scratch during shipment	Project-specific record	Project-specific

## 5. Electrical Test Record

Electrical values are confirmed by project test records.

No.	Test item	Test condition	Specification / limit	Measured value	Result
1	Inductance	Project test frequency	Approved specification	Project-specific value	Project-specific
2	DCR	Project ambient condition	Approved specification	Project-specific value	Project-specific
3	Insulation resistance	Project test voltage	Approved requirement	Project-specific value	Project-specific
4	Withstand voltage	Project test voltage and duration	Approved requirement	Project-specific value	Project-specific
5	Temperature rise	Load/current and cooling condition	Approved requirement	Project-specific value	Project-specific

6	Noise / vibration observation	Project-specific condition	If required	Project-specific observation	Project-specific
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## 6. Equipment Record

Equipment	Model	Calibration / status	Used for
LCR meter	Project-specific model	Calibration status recorded	Inductance
DC resistance tester / milliohm meter	Project-specific model	Calibration status recorded	DCR
Withstand voltage tester	Project-specific model	Calibration status recorded	Hi-pot / insulation
Temperature recorder / thermal camera	Project-specific model	Calibration status recorded	Temperature rise, if tested

## 7. Public Evidence Version

Public summary:

A redacted sample inspection record was prepared for a 20 kW-class PFC boost flat wire inductor used in an EV charger PFC-stage review. The check covered appearance, winding and insulation condition, terminal structure, key mechanical dimensions, inductance, DCR, and project-specific electrical inspection items. Customer identity, project code, drawing number, and commercial information were removed before public use.

Inspection scope summary:

A redacted inspection checklist has been prepared for the 20 kW-class PFC boost flat wire inductor case. It shows the intended inspection scope for appearance, winding and insulation condition, terminal structure, mechanical checks, inductance, DCR, and project-specific electrical items. Final measurement values should be added only from the approved sample record.

## 8. Public Display Table

Evidence item	Public wording	Evidence status
Product identity	20 kW-class PFC boost flat wire inductor	Public
Customer identity	Redacted EV charger power module customer	Redacted
Inspection scope	Appearance, winding, insulation, terminal, dimension, inductance, DCR, project-specific electrical checks	Public
Measurement values	Confirmed by approved sample record	Project-specific
Final conclusion	Approved by engineering / quality	Project-specific

## 9. 中文说明

这份文件用于说明20 kW级PFC升压扁平线电感案例中的检查范围和记录格式。它不能替代具体项目的正式测试记录。

项目正式确认时，应以客户规格书、样品记录、检验日期、仪器信息和工程/质量审核结论为准。

如未公开具体测量值，本文件仅说明检查范围和流程，不作为测试通过结论。

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Product-specific numeric results and conclusions must be confirmed against the approved sample record and project specification.