



EMC TEST REPORT

For

Zhuhai Telehof Electrics Co.,Ltd

Surge Protection Device for Power Supply

Model No. : See Model list and difference

Prepared for : Zhuhai Telehof Electrics Co.,Ltd

Address : 3/F ,Phase I , No.6 Jinhua Road, Xiaolin ,Hongqi Township,Jinwan District,Zhuhai City,China

Prepared by : DONGGUAN JUN' AN TESTING AND CERTIFICATION CO., LTD.

Address : Room 303, Building 1, No.316, Renzhou Road, Shatian Town, Dongguan City, Guangdong Province

Report Number : JAT23081702137ER-1

Date of Test : 2023-08-12 to 2023-08-21

Date of Report : 2023-08-21



TEST REPORT DESCRIPTION

Applicant : Zhuhai Telehof Electrics Co.,Ltd
Manufacturer : Zhuhai Telehof Electrics Co.,Ltd
Brand Name : Telebahn
EUT : Surge Protection Device for Power Supply
Model No. : BT BCM 50 RM
Power Supply: 230/400V(50/60Hz)

Measurement Procedure Used:

EN 55014-1:2017+A11:2020
EN IEC 55014-2:2021
EN 61000-4-2:2009
EN IEC 61000-4-3:2020

The device described above is tested by DONGGUAN JUN' AN TESTING AND CERTIFICATION CO., LTD.. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and DONGGUAN JUN' AN TESTING AND CERTIFICATION CO., LTD. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the EN 55014-1, EN IEC 55014-2, EN 61000-3-2, and EN 61000-3-3 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of DONGGUAN JUN' AN TESTING AND CERTIFICATION CO., LTD.

Date of Test : 2023-08-12 to 2023-08-21

Prepared by : Hunter Tian
Hunter Tian/Editor

Reviewer : Toddy Tian
Toddy Tian/Supervisor

Approved & Authorized Signer : Amy Zhang
Amy Zhang/Manager





Modified History

Rev.	Summary	Date of Rev.	Report No.
V1.0	Original Report	2023-08-21	JAT23081702137ER-1

Model list and difference:

Model	Rating
BT BCM../BT BM../BT BNM../BT BC../BT..NP.. /BT B.. RM	UN:230/400V Uc:75-440V Iimp:15-50kA In:30-50kA Imax:60-100kA
BT P BCM25../BT PBM...	UN:230/400V Uc:255-440V Iimp:25kA In:30-40kA Imax:60-100kA
BT P BCM...RM-S /BT PCM80...	UN:230/400V Uc:255-320V Iimp:15kA In:30-50kA Imax:65-100kA
BT P BCM12.5... /BT PCM80...	UN:230/400V Uc:255-440V Iimp:12.5kA In:30-50kA Imax:65-100kA
BT P BCM...	UN:230/400V Uc:255-440V Iimp:8kA In:25kA Imax:50kA
BT PCM60../BT PCM.. /BT PCM20../BT P DCM../BT P60../BT P C../BT P20..	UN:230/400V Uc:255-600V In:10-30kA Imax:20-60kA
BT Y PVM../BT B PVM... /BT WSM	Ucpv:150-1500V Iimp:6.25-8kA In:20kA Imax:40kA

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	BT PCM...-1 /BT PCM20...-1 /BT P DCM...-1	UN:230/400V Uc:255-600V In:10-20kA Imax:20-40kA	
	BT D...RM/BT TT..RM	UN:230/400V Uc:255-380V In:3-5kA Imax:6-10kA	
	BT E...	UN:230V Uc:275V In:3kA Imax:6kA	
	BT PST..L/BT PST..	UN:120-230V Uc:150-275V In:5-10kA Imax:10-20kA	
	BT PDU..	UN:120-230V Uc:150-275V In:5-10kA Imax:10-20kA	
	BT 5L../BT 4L../BT 3L..	UN:120-230/400V Uc:150-440V Iimp:8-50kA In:10-50kA Imax:20-100kA	
	IC../BZ..	UN:3VDC&220VAC Rb of IC:>1kA LCD Indicator:999-99999 In:1-100kA Inductive line:1m	

BT BCM 50...Series	BT BCM 25 RM(10kA)/3+N	BT BM25 255 RM	BT BCM15 320 RM/2P
BT BCM 50 RM	BT BCM30...Series	BT BM25 255 RM/2P	BT BCM15 385 RM/2P
BT BNM 100	BT BCM30 150 RM	BT BM25 255 RM/1+N	BT BCM15 150 RM/3P
BT BNM 100 RM	BT BCM30 230 RM	BT BM25 255 RM/3+N	BT BCM15 230 RM/3P
BT BCM 50 RM/2P	BT BCM30 275 RM	BT BCM22.5...Series	BT BCM15 275 RM/3P
BT BCM 50 RM/3P	BT BCM30 300 RM	BT BCM22.5 150 RM	BT BCM15 300 RM/3P
BT BCM 50 RM/4P	BT BCM30 320 RM	BT BCM22.5 275 RM	BT BCM15 320 RM/3P
BT BCM 50 RM/1+N	BT BCM30 350 RM	BT BCM22.5 320 RM	BT BCM15 385 RM/3P
BT BCM 50 RM/2+N	BT BCM30 385 RM	BT BCM22.5 385 RM	BT BCM15 150 RM/3P
BT BCM 50 RM/3+N	BT BCM30 150 RM/2P	BT BCM22.5 150 RM/2P	BT BCM15 230 RM/3P
BT BCM 50(380) RM	BT BCM30 230 RM/2P	BT BCM22.5 275 RM/2P	BT BCM15 275 RM/3P
BT BCM 50(380) RM/2P	BT BCM30 275 RM/2P	BT BCM22.5 320 RM/2P	BT BCM15 300 RM/3P
BT BMC 50(380) RM/3P	BT BCM30 320 RM/2P	BT BCM22.5 385 RM/2P	BT BCM15 320 RM/3P

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BT BMC 50(380) RM/4P	BT BCM30 350 RM/2P	BT BCM22.5 150 RM/3P	BT BCM15 385 RM/3P
BT BMC 50(380) RM/1+N	BT BCM30 385 RM/2P	BT BCM22.5 275 RM/3P	BT BCM15 150 RM/4P
BT BMC 50(380) RM/2+N	BT BCM30 150 RM/3P	BT BCM22.5 320 RM/3P	BT BCM15 230 RM/4P
BT BMC 50(380) RM/3+N	BT BCM30 230 RM/3P	BT BCM22.5 385 RM/3P	BT BCM15 275 RM/4P
BT BCM 50 440 RM	BT BCM30 320 RM/3P	BT BCM22.5 150 RM/4P	BT BCM15 300 RM/4P
BT BCM 50(480) RM	BT BCM30 385 RM/3P	BT BCM22.5 275 RM/4P	BT BCM15 320 RM/4P
BT BNM 440	BT BCM30 275 RM/3P	BT BCM22.5 320 RM/4P	BT BCM15 385 RM/4P
BT BCM 50 440 RM/2P	BT BCM30 320 RM/3P	BT BCM22.5 385 RM/4P	BT BCM15 150 RM/1+N
BT BCM 50 440 RM/3P	BT BCM30 385 RM/3P	BT BCM22.5 150 RM/1+N	BT BCM15 230 RM/1+N
BT BCM 50 440 RM/4P	BT BCM30 150 RM/4P	BT BCM22.5 275 RM/1+N	BT BCM15 275 RM/1+N
BT BCM 50 440 RM/1+N	BT BCM30 230 RM/4P	BT BCM22.5 320 RM/1+N	BT BCM15 300 RM/1+N
BT BCM 50 440 RM/2+N	BT BCM30 275 RM/4P	BT BCM22.5 385 RM/1+N	BT BCM15 320 RM/1+N
BT BCM 50 440 RM/3+N	BT BCM30 320 RM/4P	BT BCM22.5 150 RM/2+N	BT BCM15 350 RM/1+N
BT BCM 50(480) RM/2P	BT BCM30 350 RM/4P	BT BCM22.5 275 RM/2+N	BT BCM15 385 RM/1+N
BT BCM 50(480) RM/3P	BT BCM30 385 RM/4P	BT BCM22.5 320 RM/2+N	BT BCM15 150 RM/2+N
BT BCM 50(480) RM/4P	BT BCM30 150 RM/1+N	BT BCM22.5 385 RM/2+N	BT BCM15 230 RM/2+N
BT BCM 50(480) RM/1+N	BT BCM30 230 RM/1+N	BT BCM22.5 150 RM/3+N	BT BCM15 275 RM/2+N
BT BCM 50(480) RM/2+N	BT BCM30 275 RM/1+N	BT BCM22.5 275 RM/3+N	BT BCM15 300 RM/2+N
BT BCM 50(480) RM/3+N	BT BCM30 300 RM/1+N	BT BCM22.5 320 RM/3+N	BT BCM15 320 RM/2+N
BT BCM 25...Series	BT BCM30 320 RM/1+N	BT BCM22.5 385 RM/3+N	BT BCM15 350 RM/2+N
BT BCM 25 RM	BT BCM30 385 RM/1+N	BT BCM15...Series	BT BCM15 385 RM/2+N
BT BCM 25 RM(10kA)	BT BCM30 150 RM/2+N	BT BCM15 150 RM	BT BCM15 150 RM/2+N
BT BCM 25 RM/2P	BT BCM30 230 RM/2+N	BT BCM15 230 RM	BT BCM15 230 RM/2+N
BT BCM 25 RM/3P	BT BCM30 275 RM/2+N	BT BCM15 275 RM	BT BCM15 275 RM/2+N
BT BCM 25 RM/4P	BT BCM30 300 RM/2+N	BT BCM15 300 RM	BT BCM15 300 RM/2+N
BT BCM 25 RM/1+N	BT BCM30 320 RM/2+N	BT BCM15 320 RM	BT BCM15 320 RM/2+N
BT BCM 25 RM/2+N	BT BCM30 385 RM/2+N	BT BCM15 385 RM	BT BCM15 350 RM/2+N
BT BCM 25 RM/3+N	BT BCM30 150 RM/3+N	BT BCM100 255	BT BCM15 385 RM/2+N
BT BCM 25 RM(10kA)/2P	BT BCM30 230 RM/3+N	BT BCM15(RM)	BT BCM15 150 RM/3+N
BT BCM 25 RM(10kA)/3P	BT BCM30 275 RM/3+N	BT BCM15 150 RM/2P	BT BCM15 275 RM/3+N
BT BCM 25 RM(10kA)/4P	BT BCM30 300 RM/3+N	BT BCM15 230 RM/2P	BT BCM15 300 RM/3+N
BT BCM 25 RM(10kA)/1+N	BT BCM30 320 RM/3+N	BT BCM15 275 RM/2P	BT BCM15 320 RM/3+N
BT BCM 25 RM(10kA)/2+N	BT BCM30 385 RM/3+N	BT BCM15 300 RM/2P	BT BCM15 385 RM/3+N
BT BM80...Series	BT BM100 480 RM	BT BM120 385 RM/4P	BT BM200 420 RM/1+N
BT BM80 150 RM	BT BM100 150 RM/2P	BT BM120 150 RM/1+N	BT BM200 440 RM/1+N
BT BM80 230 RM	BT BM100 275 RM/2P	BT BM120 275 RM/1+N	BT BM200 480 RM/1+N
BT BM80 275 RM	BT BM100 320 RM/2P	BT BM120 320 RM/1+N	BT BM200 150 RM/2+N
BT BM80 300 RM	BT BM100 385 RM/2P	BT BM120 385 RM/1+N	BT BM200 275 RM/2+N
BT BM80 320 RM	BT BM100 150 RM/3P	BT BM120 420 RM/1+N	BT BM200 320 RM/2+N
BT BM80 350 RM	BT BM100 275 RM/3P	BT BM120 150 RM/3+N	BT BM200 385 RM/2+N
BT BM80 385 RM	BT BM100 320 RM/3P	BT BM120 275 RM/3+N	BT BM200 420 RM/2+N
BT BM80 420 RM	BT BM100 385 RM/3P	BT BM120 320 RM/3+N	BT BM200 440 RM/2+N

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BT BM80 440 RM	BT BM100 150 RM/4P	BT BM120 385 RM/3+N	BT BM200 480 RM/2+N
BT BM80 480 RM	BT BM100 275 RM/4P	BT BM120 420 RM/3+N	BT BM200 150 RM/3+N
BT BNM 255	BT BM100 320 RM/4P	BT BM200...Series	BT BM200 275 RM/3+N
BT BNM 100 255	BT BM100 385 RM/4P	BT BM200 150 RM	BT BM200 320 RM/3+N
BT BM80 150 RM/2P	BT BM100 150 RM/1+N	BT BM200 230 RM	BT BM200 385 RM/3+N
BT BM80 275 RM/2P	BT BM100 275 RM/1+N	BT BM200 275 RM	BT BM200 420 RM/3+N
BT BM80 320 RM/2P	BT BM100 320 RM/1+N	BT BM200 300 RM	BT BM200 440 RM/3+N
BT BM80 385 RM/2P	BT BM100 385 RM/1+N	BT BM200 320 RM	BT BM200 480 RM/3+N
BT BM80 150 RM/3P	BT BM100 150 RM/2+N	BT BM200 350 RM	BT T1 B25...Series
BT BM80 275 RM/3P	BT BM100 275 RM/2+N	BT BM200 385 RM	BT T1 25B 385
BT BM80 320 RM/3P	BT BM100 320 RM/2+N	BT BM200 420 RM	BT T1 25B 385/2P
BT BM80 385 RM/3P	BT BM100 385 RM/2+N	BT BM200 440 RM	BT T1 25B 385/3P
BT BM80 150 RM/4P	BT BM100 150 RM/3+N	BT BM200 480 RM	BT T1 25B 385/4P
BT BM80 275 RM/4P	BT BM100 275 RM/3+N	BT BM200 150 RM/2P	BT P BCM 25...Series
BT BM80 320 RM/4P	BT BM100 320 RM/3+N	BT BM200 275 RM/2P	BT P BCM 25 RM
BT BM80 385 RM/4P	BT BM100 385 RM/3+N	BT BM200 320 RM/2P	BT P BCM 25 (150) RM
BT BM80 150 RM/1+N	BT BM120...Series	BT BM200 385 RM/2P	BT P BCM 25 (320) RM
BT BM80 275 RM/1+N	BT BM120 150 RM	BT BM200 420 RM/2P	BT P BCM 25 (440) RM
BT BM80 320 RM/1+N	BT BM120 230 RM	BT BM200 440 RM/2P	BT P BNM 75 RM
BT BM80 385 RM/1+N	BT BM120 275 RM	BT BM200 480 RM/2P	BT P BNM 100(RM)
BT BM80 150 RM/2+N	BT BM120 300 RM	BT BM200 150 RM/3P	BT P BCM 25 RM/2P
BT BM80 275 RM/2+N	BT BM120 320 RM	BT BM200 275 RM/3P	BT P BCM 25 RM/3P
BT BM80 320 RM/2+N	BT BM120 350 RM	BT BM200 320 RM/3P	BT P BCM 25 RM/4P
BT BM80 385 RM/2+N	BT BM120 385 RM	BT BM200 385 RM/3P	BT P BCM 25 RM/1+N
BT BM80 150 RM/3+N	BT BM120 420 RM	BT BM200 420 RM/3P	BT P BCM 25 RM/2+N
BT BM80 275 RM/3+N	BT BM120 440 RM	BT BM200 440 RM/3P	BT P BCM 25 RM/3+N
BT BM80 320 RM/3+N	BT BM120 480 RM	BT BM200 480 RM/3P	BT P BCM 25 RM/6+N
BT BM80 385 RM/3+N	BT BM120 150 RM/2P	BT BM200 150 RM/4P	BT P BCM 25(150) RM/2P
BT BM100...Series	BT BM120 275 RM/2P	BT BM200 275 RM/4P	BT P BCM 25(150) RM/3P
BT BM100 150 RM	BT BM120 320 RM/2P	BT BM200 320 RM/4P	BT P BCM 25(150) RM/4P
BT BM100 230 RM	BT BM120 385 RM/2P	BT BM200 385 RM/4P	BT P BCM 25(150) RM/1+N
BT BM100 275 RM	BT BM120 150 RM/3P	BT BM200 420 RM/4P	BT P BCM 25(150) RM/2+N
BT BM100 300 RM	BT BM120 275 RM/3P	BT BM200 440 RM/4P	BT P BCM 25(150) RM/3+N
BT BM100 320 RM	BT BM120 320 RM/3P	BT BM200 480 RM/4P	BT P BCM 25(320) RM/2P
BT BM100 350 RM	BT BM120 385 RM/3P	BT BM200 150 RM/1+N	BT P BCM 25(320) RM/3P
BT BM100 385 RM	BT BM120 150 RM/4P	BT BM200 275 RM/1+N	BT P BCM 25(320) RM/4P
BT BM100 420 RM	BT BM120 275 RM/4P	BT BM200 320 RM/1+N	BT P BCM 25(320) RM/1+N
BT BM100 440 RM	BT BM120 320 RM/4P	BT BM200 385 RM/1+N	BT P BCM 25(320) RM/2+N
BT P BCM 25(320) RM/3+N	BT PBM80 275 RM/3P	BT PBM60 385 RM/3P	BT PBM120 480 RM/3+N
BT PBM...Series	BT PBM100 275 RM/3P	BT PBM80 385 RM/3P	BT PBNM 255 RM
BT PBM60 150 RM...	BT PBM120 275 RM/3P	BT PBM100 385 RM/3P	BT P BCM.../S Series
BT PBM80 150 RM...	BT PBM60 275 RM/4P	BT PBM120 385 RM/3P	BT P BCM 150 R/S

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BT PBM100 150 RM...	BT PBM80 275 RM/4P	BT PBM60 385 RM/2+N	BT P BCM 230 RM/S
BT PBM120 150 RM...	BT PBM100 275 RM/4P	BT PBM80 385 RM/2+N	BT P BCM 275 RM/S
BT PBM60 150 RM/2P	BT PBM120 275 RM/4P	BT PBM100 385 RM/2+N	BT P BCM 320 RM/S
BT PBM80 150 RM/2P	BT PBM60 275 RM/3+N	BT PBM120 385 RM/2+N	BT P BCM 350 RM/S
BT PBM100 150 RM/2P	BT PBM80 275 RM/3+N	BT PBM60 385 RM/4P	BT P BCM 385 RM/S
BT PBM120 150 RM/2P	BT PBM100 275 RM/3+N	BT PBM80 385 RM/4P	BT P BCM 255 RM/S
BT PBM60 150 RM/3P	BT PBM120 275 RM/3+N	BT PBM100 385 RM/4P	BT P BCM 255 RM
BT PBM80 150 RM/3P	BT PBM60 320 RM (/..)	BT PBM120 385 RM/4P	BT P BCM 2P 150 RM/S
BT PBM100 150 RM/3P	BT PBM80 320 RM (/..)	BT PBM60 385 RM/3+N	BT P BCM 2P 230 RM/S
BT PBM120 150 RM/3P	BT PBM100 320 RM (/..)	BT PBM80 385 RM/3+N	BT P BCM 2P 275 RM/S
BT PBM60 150 RM/4P	BT PBM120 320 RM (/..)	BT PBM100 385 RM/3+N	BT P BCM 2P 320 RM/S
BT PBM80 150 RM/4P	BT PBM60 320 RM/1+N	BT PBM120 385 RM/3+N	BT P BCM 2P 350 RM/S
BT PBM100 150 RM/4P	BT PBM80 320 RM/1+N	BT PBM60 420 RM(/...)	BT P BCM 2P 385 RM/S
BT PBM120 150 RM/4P	BT PBM100 320 RM/1+N	BT PBM80 420 RM(/...)	BT P BCM 3P 150 RM/S
BT PBM60 150 RM/1+N	BT PBM120 320 RM/1+N	BT PBM100 420 RM(/...)	BT P BCM 3P 230 RM/S
BT PBM80 150 RM/1+N	BT PBM60 320 RM/2P	BT PBM120 420 RM(/...)	BT P BCM 3P 275 RM/S
BT PBM100 150 RM/1+N	BT PBM80 320 RM/2P	BT PBM60 440 RM(/...)	BT P BCM 3P 320 RM/S
BT PBM120 150 RM/1+N	BT PBM100 320 RM/2P	BT PBM80 440 RM(/...)	BT P BCM 3P 350 RM/S
BT PBM60 150 RM/3+N	BT PBM120 320 RM/2P	BT PBM100 440 RM(/...)	BT P BCM 3P 385 RM/S
BT PBM80 150 RM/3+N	BT PBM60 320 RM/3P	BT PBM120 440 RM(/...)	BT P BCM 4P 150 RM/S
BT PBM100 150 RM/3+N	BT PBM80 320 RM/3P	BT PBM60 480 RM	BT P BCM 4P 230 RM/S
BT PBM120 150 RM/3+N	BT PBM100 320 RM/3P	BT PBM80 480 RM	BT P BCM 4P 275 RM/S
BT PBM60 175 RM...	BT PBM120 320 RM/3P	BT PBM100 480 RM	BT P BCM 4P 320 RM/S
BT PBM80 175 RM...	BT PBM60 320 RM/3+N	BT PBM120 480 RM	BT P BCM 4P 350 RM/S
BT PBM100 175 RM...	BT PBM80 320 RM/3+N	BT PBM60 480 RM/2P	BT P BCM 4P 385 RM/S
BT PBM120 175 RM...	BT PBM100 320 RM/3+N	BT PBM80 480 RM/2P	BT P BCM TT1+1 150 RM/S
BT PBM60 175 RM/4P	BT PBM120 320 RM/3+N	BT PBM100 480 RM/2P	BT P BCM TT1+1 230 RM/S
BT PBM80 175 RM/4P	BT PBM60 320 RM/4P	BT PBM120 480 RM/2P	BT P BCM TT1+1 275 RM/S
BT PBM100 175 RM/4P	BT PBM80 320 RM/4P	BT PBM60 480 RM/1+N	BT P BCM TT1+1 320 RM/S
BT PBM120 175 RM/4P	BT PBM100 320 RM/4P	BT PBM80 480 RM/1+N	BT P BCM TT1+1 350 RM/S
BT PBM60 275 RM	BT PBM120 320 RM/4P	BT PBM100 480 RM/1+N	BT P BCM TT1+1 385 RM/S
BT PBM80 275 RM	BT PBM60 385 RM	BT PBM120 480 RM/1+N	BT P BCM TT 150 RM/S
BT PBM100 275 RM	BT PBM80 385 RM	BT PBM60 480 RM/3P	BT P BCM TT 230 RM/S
BT PBM120 275 RM	BT PBM100 385 RM	BT PBM80 480 RM/3P	BT P BCM TT 275 RM/S
BT PBM60 275 RM/2P	BT PBM120 385 RM	BT PBM100 480 RM/3P	BT P BCM TT 320 RM/S
BT PBM80 275 RM/2P	BT PBM60 385 RM/2P	BT PBM120 480 RM/3P	BT P BCM TT 350 RM/S
BT PBM100 275 RM/2P	BT PBM80 385 RM/2P	BT PBM60 480 RM/4P	BT P BCM TT 385 RM/S
BT PBM120 275 RM/2P	BT PBM100 385 RM/2P	BT PBM80 480 RM/4P	BT P BCM12.5...Series
BT PBM60 275 RM/1+N	BT PBM120 385 RM/2P	BT PBM100 480 RM/4P	BT P BCM12.5 150 RM
BT PBM80 275 RM/1+N	BT PBM60 385 RM/1+N	BT PBM120 480 RM/4P	BT P BCM12.5 230 RM
BT PBM100 275 RM/1+N	BT PBM80 385 RM/1+N	BT PBM60 480 RM/3+N	BT P BCM12.5 275 RM
BT PBM120 275 RM/1+N	BT PBM100 385 RM/1+N	BT PBM80 480 RM/3+N	BT P BCM12.5 300 RM

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BT PBM60 275 RM/3P	BT PBM120 385 RM/1+N	BT PBM100 480 RM/3+N	BT P BCM12.5 320 RM
BT P BCM12.5 350 RM	BT P BCM12.5 300 RM/3+N	BT P BCM 255 RM	BT P BCM 230 RM/3+N
BT P BCM12.5 385 RM	BT P BCM12.5 320 RM/3+N	BT P BCM 255	BT P BCM 250 RM/3+N
BT P BCM12.5 440 RM	BT P BCM12.5 350 RM/3+N	BT P BCM 250 RM-MG	BT P BCM 275 RM/3+N
BT P BCM 25 255 RM	BT P BCM12.5 385 RM/3+N	BT P BCM 275 RM-MG	BT P BCM 300 RM/3+N
BT P BCM12.5 150 RM/2P	BT P BCM12.5 440 RM/3+N	BT P BCM 255 RM/2P	BT P BCM 320 RM/3+N
BT P BCM12.5 230 RM/2P	BT P BCM12.5 150 RM/1+1+N	BT P BCM 275 RM-MG/3P	BT P BCM 350 RM/3+N
BT P BCM12.5 275 RM/2P	BT P BCM12.5 230 RM/1+1+N	BT P BCM 150 RM/2P	BT P BCM 385 RM/3+N
BT P BCM12.5 300 RM/2P	BT P BCM12.5 275 RM/1+1+N	BT P BCM 230 RM/2P	BT P BCM 150 RM/1*2P
BT P BCM12.5 320 RM/2P	BT P BCM12.5 300 RM/1+1+N	BT P BCM 250 RM/2P	BT P BCM 230 RM/1*2P
BT P BCM12.5 350 RM/2P	BT P BCM12.5 320 RM/1+1+N	BT P BCM 275 RM/2P	BT P BCM 250 RM/1*2P
BT P BCM12.5 385 RM/2P	BT P BCM12.5 350 RM/1+1+N	BT P BCM 300 RM/2P	BT P BCM 275 RM/1*2P
BT P BCM12.5 440 RM/2P	BT P BCM12.5 385 RM/1+1+N	BT P BCM 320 RM/2P	BT P BCM 300 RM/1*2P
BT P BCM12.5 150 RM/3P	BT P BCM12.5 440 RM/1+1+N	BT P BCM 350 RM/2P	BT P BCM 320 RM/1*2P
BT P BCM12.5 230 RM/3P	BT P BCM12.5 150 RM/2+2+N	BT P BCM 385 RM/2P	BT P BCM 350 RM/1*2P
BT P BCM12.5 275 RM/3P	BT P BCM12.5 230 RM/2+2+N	BT P BCM 150 RM/3P	BT P BCM 385 RM/1*2P
BT P BCM12.5 300 RM/3P	BT P BCM12.5 275 RM/2+2+N	BT P BCM 230 RM/3P	BT P BCM 150 RM/2*2P
BT P BCM12.5 320 RM/3P	BT P BCM12.5 300 RM/2+2+N	BT P BCM 250 RM/3P	BT P BCM 230 RM/2*2P
BT P BCM12.5 350 RM/3P	BT P BCM12.5 320 RM/2+2+N	BT P BCM 275 RM/3P	BT P BCM 250 RM/2*2P
BT P BCM12.5 385 RM/3P	BT P BCM12.5 350 RM/2+2+N	BT P BCM 300 RM/3P	BT P BCM 275 RM/2*2P
BT P BCM12.5 440 RM/3P	BT P BCM12.5 385 RM/2+2+N	BT P BCM 320 RM/3P	BT P BCM 300 RM/2*2P
BT P BCM12.5 150 RM/4P	BT P BCM12.5 440 RM/2+2+N	BT P BCM 350 RM/3P	BT P BCM 320 RM/2*2P
BT P BCM12.5 230 RM/4P	BT P BCM12.5 150 RM/3+3+N	BT P BCM 385 RM/3P	BT P BCM 350 RM/2*2P
BT P BCM12.5 275 RM/4P	BT P BCM12.5 230 RM/3+3+N	BT P BCM 150 RM/4P	BT P BCM 385 RM/2*2P
BT P BCM12.5 300 RM/4P	BT P BCM12.5 275 RM/3+3+N	BT P BCM 230 RM/4P	BT P BCM 230 RM/3*2P
BT P BCM12.5 320 RM/4P	BT P BCM12.5 300 RM/3+3+N	BT P BCM 250 RM/4P	BT P BCM 275 RM/3*2P
BT P BCM12.5 350 RM/4P	BT P BCM12.5 320 RM/3+3+N	BT P BCM 275 RM/4P	BT P BCM 320 RM/3*2P
BT P BCM12.5 385 RM/4P	BT P BCM12.5 350 RM/3+3+N	BT P BCM 300 RM/4P	BT P BCM 230 RM/1*2P+N
BT P BCM12.5 440 RM/4P	BT P BCM12.5 385 RM/3+3+N	BT P BCM 320 RM/4P	BT P BCM 275 RM/1*2P+N
BT P BCM12.5 150 RM/1+N	BT P BCM12.5 440 RM/3+3+N	BT P BCM 350 RM/4P	BT P BCM 320 RM/1*2P+N
BT P BCM12.5 230 RM/1+N	BT PCM 255 RM(12.5E)	BT P BCM 385 RM/4P	BT P BCM 230 RM/3*2P+N
BT P BCM12.5 275 RM/1+N	BT PCM 75 RM(12.5E)	BT P BCM 150 RM/1+N	BT P BCM 275 RM/3*2P+N
BT P BCM12.5 300 RM/1+N	BT PCM 150 RM(12.5E)	BT P BCM 230 RM/1+N	BT P BCM 320 RM/3*2P+N
BT P BCM12.5 320 RM/1+N	BT PCM 275 RM(12.5E)	BT P BCM 250 RM/1+N	BT P BCM 230 RM/4*2P
BT P BCM12.5 350 RM/1+N	BT PCM 320 RM(12.5E)	BT P BCM 275 RM/1+N	BT P BCM 275 RM/4*2P
BT P BCM12.5 385 RM/1+N	BT PCM 385 RM(12.5E)	BT P BCM 300 RM/1+N	BT P BCM 320 RM/4*2P
BT P BCM12.5 440 RM/1+N	BT PCM 440 RM(12.5E)	BT P BCM 320 RM/1+N	BT P BCM 150 RM/6+N
BT P BCM12.5 150 RM/2+N	BT PCM 480 RM(12.5E)	BT P BCM 350 RM/1+N	BT P BCM 230 RM/6+N
BT P BCM12.5 230 RM/2+N	BT PCM 600 RM(12.5E)	BT P BCM 385 RM/1+N	BT P BCM 275 RM/6+N
BT P BCM12.5 275 RM/2+N	BT P BCM...Series	BT P BCM 150 RM/2+N	BT P BCM 300 RM/6+N
BT P BCM12.5 300 RM/2+N	BT P BCM 150 RM	BT P BCM 230 RM/2+N	BT P BCM 320 RM/6+N
BT P BCM12.5 320 RM/2+N	BT P BCM 230 RM	BT P BCM 250 RM/2+N	BT P BCM 350 RM/6+N

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BT P BCM12.5 350 RM/2+N	BT P BCM 250 RM	BT P BCM 275 RM/2+N	BT P BCM 385 RM/6+N
BT P BCM12.5 385 RM/2+N	BT P BCM 275 RM	BT P BCM 300 RM/2+N	BT WSM...Series
BT P BCM12.5 440 RM/2+N	BT P BCM 300 RM	BT P BCM 320 RM/2+N	BT WSM 600 RM
BT P BCM12.5 150 RM/3+N	BT P BCM 320 RM	BT P BCM 250 RM/2+N	BT WSM 750 RM
BT P BCM12.5 230 RM/3+N	BT P BCM 350 RM	BT P BCM 385 RM/2+N	BT WSM 1000 RM
BT P BCM12.5 275 RM/3+N	BT P BCM 385 RM	BT P BCM 150 RM/3+N	BT WSM 1000 PE RM
BT WSM 750 RM/3P	BT P BDC25 24 RM	BT P DCM 220 RM/2P	BT PCM80 385 RM/4P
BT WSM80 750 RM/3P	BT P BDC25 48 RM	BT P DCM 440 RM/2P	BT PCM80 420 RM/4P
BT WSM B10 750 RM/3P	BT P BDC25 110 RM	BT P DCM 12 RM-1	BT PCM80 440 RM/4P
BT WSM 1000 RM/3P	BT P BDC25 200 RM	BT P DCM 24 -1	BT PCM80 275 RM/1+N
BT WSM 1000 RM/3+N	BT P BDC25 220 RM	BT P DCM 24 RM-1	BT PCM80 150 RM/1+N
BT WSM 1000 RM/3+N ES	BT P BDC25 48 PE RM	BT P DCM 48 RM-1	BT PCM80 320 RM/1+N
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BT PVM 600 RM	BT P BDC25 110 RM/2P	BT P DCM 110 RM-1	BT PCM80 440 RM/1+N
BT PVM 800 RM	BT P BDC25 200 RM/2P	BT P DCM 220 RM-1	BT PCM80 275 RM/2+N
BT PVM 1000 RM	BT P BDC25 220 RM/2P	BT P DCM 24 RM-S	BT PCM80 150 RM/2+N
BT PVM 1200 RM	BT P BDC25 24 RM/1+1	BT P DCM 48 RM-S	BT PCM80 320 RM/2+N
BT PVM 1500 RM	BT P BDC25 48 RM/1+1	BT P DCM 110 RM-S	BT PCM80 385 RM/2+N
BT PVM 150 RM/2P	BT P BDC25 110 RM/1+1	BT P DCM 220 RM-S	BT PCM80 420 RM/2+N
BT PVM 600 RM/2P	BT P BDC25 200 RM/1+1	BT PCM80...Series	BT PCM80 440 RM/2+N
BT PVM 800 RM/2P	BT P BDC25 220 RM/1+1	BT PCM80(RM)	BT PCM80 150 RM/3+N
BT PVM 1000 RM/2P	BT P BDCM 24 RM	BT PCM80 150 RM	BT PCM80 275 RM/3+N
BT PVM 1200 RM/2P	BT P BDCM 48 RM	BT PCM80 230 RM	BT PCM80 320 RM/3+N
BT PVM 1500 RM/2P	BT P BDCM 110 RM	BT PCM80 250 RM	BT PCM80 385 RM/3+N
BT PVM 150 RM/3P	BT P BDCM 220 RM	BT PCM80 275 RM	BT PCM80 420 RM/3+N
BT PVM 600 RM/3P	BT P BDCM 24 RM/2P	BT PCM80 300 RM	BT PCM80 440 RM/3+N
BT PVM 800 RM/3P	BT P BDCM 48 RM/2P	BT PCM80 320 RM	BT PCM65 75 RM
BT PVM 1000 RM/3P	BT P BDCM 110 RM/2P	BT PCM80 350 RM	BT PCM65 275 RM
BT PVM 1200 RM/3P	BT P BDCM 220 RM/2P	BT PCM80 385 RM	BT PCM65 255 RM
BT PVM 1500 RM/3P	BT P DCM(H)...Series	BT PCM80 420 RM	BT PCM65 275 RM/3+N
BT PVM 420 RM/2P*4	BT P DCH 48 RM	BT PCM80 440 RM	BT PCM60...Series
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BT PVM 1000 RM/EPB 2X	BT P DCH 750 RM	BT PCM80 230 RM/2P	BT PCM60 275 RM
BT PVM 150 RM/S	BT P DCH 48 RM/2P	BT PCM80 250 RM/2P	BT PCM60 320 RM
BT PVM 600 RM/S	BT P DCH 220 RM/2P	BT PCM80 275 RM/2P	BT PCM60 385 RM
BT PVM 1000 RM/S	BT P DCH 500 RM/2P	BT PCM80 300 RM/2P	BT PCM60 440 RM
BT PVM 1500 RM/S	BT P DCH 750 RM/2P	BT PCM80 320 RM/2P	BT PCM60 150 RM/2P
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BT Y PVM 150 RM	BT P DCM 12 RM	BT PCM80 385 RM/2P	BT PCM60 320 RM/2P
BT Y PVM 600 RM	BT P DCM 24 RM	BT PCM80 420 RM/2P	BT PCM60 385 RM/2P

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BT Y PVM 1500 RM	BT P DCM 60 RM	BT PCM80 150 RM/3P	BT PCM60 275 RM/1+N
BT B PVM...Series	BT P DCM 110 RM	BT PCM80 275 RM/3P	BT PCM60 320 RM/1+N
BT B PVM 150 RM	BT P DCM 220 RM	BT PCM80 320 RM/3P	BT PCM60 385 RM/1+N
BT B PVM 600 RM	BT P DCM 440 RM	BT PCM80 385 RM/3P	BT PCM60 440 RM/1+N
BT B PVM 800 RM	BT P DCM 12 RM/2P	BT PCM80 420 RM/3P	BT PCM60 150 RM/3P
BT B PVM 1000 RM	BT P DCM 24 RM/2P	BT PCM80 440 RM/3P	BT PCM60 275 RM/3P
BT B PVM 1200 RM	BT P DCM 48 RM/2P	BT PCM80 150 RM/4P	BT PCM60 320 RM/3P
BT B PVM 1500 RM	BT P DCM 60 RM/2P	BT PCM80 275 RM/4P	BT PCM60 385 RM/3P
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BT PCM60 150 RM/4P	BT PCM 385 RM/2P	BT PCM20...Series	BT PCM20 150 RM/3+N
BT PCM60 275 RM/4P	BT PCM TN 385 RM	BT PCM20 150 RM	BT PCM20 230 RM/3+N
BT PCM60 320 RM/4P	BT PCM 440 RM/2P	BT PCM20 230 RM	BT PCM20 275 RM/3+N
BT PCM60 385 RM/4P	BT PCM 480 RM/2P	BT PCM20 275 RM	BT PCM20 300 RM/3+N
BT PCM60 440 RM/4P	BT PCM TT1+1 75 RM	BT PCM20 300 RM	BT PCM20 320 RM/3+N
BT PCM60 150 RM/3+N	BT PCM TT1+1 150 RM	BT PCM20 320 RM	BT PCM20 385 RM/3+N
BT PCM60 275 RM/3+N	BT PCM TT1+1 175 RM	BT PCM20 385 RM	BT PCM20 440 RM/3+N
BT PCM60 320 RM/3+N	BT PCM TT1+1 230 RM	BT PCM20 440 RM	BT PCM10 385 RM
BT PCM60 385 RM/3+N	BT PCM TT1+1 275 RM	BT PCM20 255 RM	BT PCM10 385 RM/3+N
BT PCM60 440 RM/3+N	BT PCM TT1+1 320 RM	BT PCM20 150 RM/2P	BT PCM TT1+1 150 RM -S
BT PCM60 275 RM/6+N	BT PCM TT1+1 350 RM	BT PCM20 230 RM/2P	BT PCM TT1+1 275 RM -S
BT PCM60 385 RM/6+N	BT PCM TT1+1 385 RM	BT PCM20 275 RM/2P	BT PCM TT1+1 320 RM -S
PCM60...RM/1+2P	BT PCM TT1+1 440 RM	BT PCM20 300 RM/2P	BT PCM TT1+1 385 RM -S
BT PCM60 275 RM/1+2P	BT PCM TT1+1 460 RM	BT PCM20 320 RM/2P	BT PCM TT3+1 150 RM -S
BT PCM60 385 RM/1+2P	BT PCM TNC 150 RM/(3P)	BT PCM20 385 RM/2P	BT PCM TT3+1 275 RM -S
BT PCM...Series	BT PCM TNC 175 RM/(3P)	BT PCM20 440 RM/2P	BT PCM TT3+1 320 RM -S
BT PCM40(RM)	BT PCM TNC 230 RM/(3P)	BT PCM20 150 RM/3P	BT PCM TT3+1 385 RM -S
BT PCM 75 RM	BT PCM TNC 275 RM/(3P)	BT PCM20 230 RM/3P	BT PCM TNS 150 RM-S
BT PCM 75 MG RM	BT PCM TNC 320 RM/(3P)	BT PCM20 275 RM/3P	BT PCM TNS 275 RM-S
BT PCM 150 RM	BT PCM TNC 350 RM/(3P)	BT PCM20 300 RM/3P	BT PCM TNS 320 RM-S
BT PCM 175 RM	BT PCM TNC 385 RM/(3P)	BT PCM20 320 RM/3P	BT PCM TNS 385 RM-S
BT PCM 230 RM	BT PCM TNC 440 RM/(3P)	BT PCM20 385 RM/3P	BT PCM 150 RM-1
BT PCM 250 RM	BT PCM TNC 480 RM/(3P)	BT PCM20 440 RM/3P	BT PCM 275 RM-1
BT PCM 275 RM	BT PCM TNC 550 RM/(3P)	BT PCM20 275 RM/1+2P	BT PCM 320 RM-1
BT PCM 275 MG RM	BT PCM TT2+1 150 RM	PCM20 ...RM/1+2P	BT PCM 385 RM-1
BT PCM 320 RM	BT PCM TT2+1 275 RM	PCM40 ...RM/1+2P	BT PCM 255 RM-1
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BT PCM 385 RM	BT PCM TT2+1 350 RM	BT PCM20 230 RM/4P	BT PCM TT1+1 150 RM-1
BT PCM 420 RM	BT PCM TT2+1 385 RM	BT PCM20 275 RM/4P	BT PCM TT1+1 230 RM-1
BT PCM 440 RM	BT PCM TNS 150 RM	BT PCM20 300 RM/4P	BT PCM TT1+1 275 RM-1
BT PCM 460 RM	BT PCM 230 RM/4P	BT PCM20 320 RM/4P	BT PCM TT1+1 300 RM-1

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BT PCM 480 RM	BT PCM TNS 275 RM	BT PCM20 385 RM/4P	BT PCM TT1+1 320 RM-1
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BT PCM 750 RM	BT PCM TNS 320 RM	BT PCM20 150 RM/1+N	BT PCM TT1+1 385 RM-1
BT PCM 255 RM	BT PCM 350 RM/4P	BT PCM20 230 RM/1+N	BT PCM TT1+1 420 RM-1
BT PCM 75 RM/2P	BT PCM TNS 385 RM	BT PCM20 275 RM/1+N	BT PCM TT1+1 440 RM-1
BT PCM 150 RM/2P	BT PCM TNS 440 RM	BT PCM20 300 RM/1+N	BT PCM 150 RM/2P-1
BT PCM TN 150 RM	BT PCM TNS 480 RM	BT PCM20 320 RM/1+N	BT PCM 230 RM/2P-1
BT PCM 175 RM/2P	BT PCM TT3+1 150 RM	BT PCM20 385 RM/1+N	BT PCM 275 RM/2P-1
BT PCM 230 RM/2P	BT PCM TT3+1 275 RM	BT PCM20 440 RM/1+N	BT PCM 300 RM/2P-1
BT PCM 255 RM/2P	BT PCM TT3+1 320 RM	BT PCM20 150 RM/2+N	BT PCM 320 RM/2P-1
BT PCM 275 RM/2P	BT PCM TT 320 RM	BT PCM20 230 RM/2+N	BT PCM 350 RM/2P-1
BT PCM TN 275 RM	BT PCM TT 350 RM	BT PCM20 275 RM/2+N	BT PCM 385 RM/2P-1
BT PCM 300 RM/2P	BT PCM TT3+1 385 RM	BT PCM20 300 RM/2+N	BT PCM 420 RM/2P-1
BT PCM 320 RM/2P	BT PCM TT 440 RM	BT PCM20 320 RM/2+N	BT PCM 440 RM/2P-1
BT PCM TN 320 RM	BT PCM TT 460 RM	BT PCM20 385 RM/2+N	BT PCM TT3+1 75 RM-1
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BT PCM TT3+1 230 RM-1	BT PCM20 300 RM/4P-1	BT BM160 320 RM/2+N	BT TT... RM Series
BT PCM TT3+1 275 RM-1	BT PCM20 320 RM/4P-1	BT BM160 385 RM/2+N	BT TT1+1 150 RM
BT PCM TT3+1 300 RM-1	BT PCM20 350 RM/4P-1	BT BM160 420 RM/2+N	BT TT1+1 230 RM
BT PCM TT3+1 320 RM-1	BT PCM20 385 RM/4P-1	BT BM160 440 RM/2+N	BT TT1+1 275 RM
BT PCM TT3+1 385 RM-1	BT PCM20 420 RM/4P-1	BT BM160 480 RM/2+N	BT TT1+1 385 RM
BT PCM TT3+1 420 RM-1	BT PCM20 440 RM/4P-1	BT BM160 150 RM/3+N	BT TT 150 3N RM
BT PCM TT3+1 440 RM-1	BT BM160...Series	BT BM160 275 RM/3+N	BT TT 230 3N RM
BT PCM 150 RM/4P-1	BT BM160 150 RM	BT BM160 320 RM/3+N	BT TT 275 3N RM
BT PCM 230 RM/4P-1	BT BM160 230 RM	BT BM160 385 RM/3+N	BT TT 385 3N RM
BT PCM 275 RM/4P-1	BT BM160 275 RM	BT BM160 420 RM/3+N	BT D...Series
BT PCM 300 RM/4P-1	BT BM160 300 RM	BT BM160 440 RM/3+N	BT D 12 RM
BT PCM 320 RM/4P-1	BT BM160 320 RM	BT BM160 480 RM/3+N	BT D 24 RM
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BT PCM 385 RM/4P-1	BT BM160 385 RM	BT PCB BCM12.5 150 RM	BT D 60 RM
BT PCM 420 RM/4P-1	BT BM160 420 RM	BT PCB BCM12.5 230 RM	BT D 120 RM
BT PCM 440 RM/4P-1	BT BM160 440 RM	BT PCB BCM12.5 275 RM	BT D 230 RM
BT PCM20...-1 Series	BT BM160 480 RM	BT PCB BCM12.5 320 RM	BT D 230 3N RM
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BT PCM20 TT1+1 230 RM-1	BT BM160 275 RM/2P	BT PCB BCM25 255 RM	BT D 230 3N/S
BT PCM20 TT1+1 275 RM-1	BT BM160 320 RM/2P	BT PCB BCM 150 RM	BT D 230/SN
BT PCM20 TT1+1 300 RM-1	BT BM160 385 RM/2P	BT PCB BCM 230 RM	BT D 48 WP
BT PCM20 TT1+1 320 RM-1	BT BM160 420 RM/2P	BT PCB BCM 275 RM	BT D 210-100
BT PCM20 TT1+1 350 RM-1	BT BM160 440 RM/2P	BT PCB BCM 320 RM	BT 22010
BT PCM20 TT1+1 385 RM-1	BT BM160 480 RM/2P	BT PCB BCM 385 RM	BT D 85 LED
BT PCM20 TT1+1 420 RM-1	BT BM160 150 RM/3P	BT PCB BCM 255 RM	BT D 85 LED H
BT PCM20 TT1+1 440 RM-1	BT BM160 275 RM/3P	BT PCB CM80 150 RM	BT D 275 LED LP

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BT PCM20 275 RM/2P-1	BT BM160 420 RM/3P	BT PCB CM80 385 RM	BT D 275 LED LS
BT PCM20 300 RM/2P-1	BT BM160 440 RM/3P	BT PCB CM80 255 RM	BT D 275 LED HS
BT PCM20 320 RM/2P-1	BT BM160 480 RM/3P	BT PCB CM60 150 RM	BT D 300 LED
BT PCM20 350 RM/2P-1	BT BM160 150 RM/4P	BT PCB CM60 275 RM	BT D 320 LED LP
BT PCM20 385 RM/2P-1	BT BM160 275 RM/4P	BT PCB CM60 320 RM	BT D 320 LED LS
BT PCM20 420 RM/2P-1	BT BM160 320 RM/4P	BT PCB CM60 385 RM	BT D 320 LED HP
BT PCM20 440 RM/2P-1	BT BM160 385 RM/4P	BT PCB CM 150 RM	BT D 320 LED HS
BT PCM20 TT3+1 150 RM-1	BT BM160 420 RM/4P	BT PCB CM 275 RM	BT D 440 LED LP
BT PCM20 TT3+1 230 RM-1	BT BM160 440 RM/4P	BT PCB CM 320 RM	BT D 440 LED LS
BT PCM20 TT3+1 275 RM-1	BT BM160 480 RM/4P	BT PCB CM 385 RM	BT D 440 LED HP
BT PCM20 TT3+1 300 RM-1	BT BM160 150 RM/1+N	BT PCB CM 440 RM	BT D 440 LED HS
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BT E 230	IC 07	BT WS 750 RM/3P	BT P60 385 RM
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BT PST 6SF	BT B100 385 RM	BT PC 3P 320 RM	BT P20 TT1+1 385 RM
BT PST10 7S	BT B120 385 RM	BT PC 3P 385 RM	BT P20 3P 275 RM
BT PST10 7SF	BT B60 275 RM	BT P C 3P 440 RM	BT P20 3P 385 RM
BT PST20 7S	BT B80 275 RM	BT P C 4P 150 RM	BT P20 4P 275 RM
BT PST10-EU	BT B100 275 RM	BT P C 4P 275 RM	BT P20 4P 385 RM
BT PST10 6S-DE	BT B120 275 RM	BT P C 4P 320 RM	BT P20 TT 275 RM
BT PST20 7SF	BT B120 440 RM	BT P C 4P 385 RM	BT P20 TT 385 RM
BT PST10 120L	BT B100 460 RM	BT P C 4P 440 RM	BT P DC...Series
BT PST10 230L	BT B120 385/3P	BT PC TT 150 RM	BT P DC 12 RM
BT PST20 120H	BT B120 440/3P	BT PC TT 275 RM	BT P DC 24 RM
BT PST20 230H	BT B100 460 RM/3P	BT PC TT 320 RM	BT P DC 48 RM
BT PST10 L	BT NP 255	BT PC TT 385 RM	BT P DC 110 RM
BT PST20 H	BT NP 1000	BT PC TT 440 RM	BT P DC 220 RM
BT PST B8 H	Power BASE	BT PC 75 MG RM	BT PD 230 RM
IC...(Impulse Counter)	BT PVS 600 RM	BT PC 275 MG RM	BT PD 385 RM
BT PD TT1+1 385	BT 5L BCM 275 3+1	BT 3L 320-60	BM-36-3
BT PD 2P 385 RM	BT 5L BM 385/160 4P	BT 3L 255/BC 25	BM-36-4
BT PCB20 275 UVP	BT 5L TNC 275/40	BT 3L 385-40 WP	BM-36-6
BT 5L 415 RM	BT 5L CM 275/40 4P	BT 3L 385-60 WP	S-2
BT 5L BM 415 RM	BT 5L CM 275/40 3+1	BT 3L BM200 275 RM/1+1	S-21
BT 3L 240 RM	BT 5L CM 385/40 4P	BT 3L WF C20 320/1+N	S-3
BT 3L BM 240 RM	BT 5L CM 385/40 3+1	BT 3L BM 385/60 2P	S-31
BT 5L...box series	BT 5L CM 275/60 4P	BT 3L BM 385/60 1+1	S-4
BT 5L-WF...box series	BT 5L CM 275/60 3+1	BT 3L BM 385/80 2P	S-41
BT 5L 255/100 4P	BT 5L CM 385/60 4P	BT 3L BM 385/80 1+1	IKM 35
BT 5L 255/100	BT 5L CM 385/60 3+1	BT 3L BM 385/100 2P	STC-25A
BT 5L 385/100	BT 5L CM 440/60 4P	BT 3L BM 385/100 1+1	STC-25B
BT 5LS B 385/100	BT 5L CM 440/60 3+1	BT 3L BM 385/120 2P	ISG 10
BT 5L 385/120	BT 5L DM 275/20 4P	BT 3L BM 385/120 1+1	ISG 10 S
BT 5L-WF 255/100 3+1	BT 5L DM 275/20 3+1	BT 3L BCM 255/50 2P	ISG 200
BT 5L-WF 255/100 4P	BT 5L CM 385/80 3+1	BT 3L BCM 255/50 1+1	EB 06
BT 5L-WF 385/80 3P	BT 5L WF C20 275/3+N	BT 3L CM 275/40 2P	EB 16

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BT 5L-WF 385/120 3P	BT 5L PCB 20 275/3+N	BT 3L CM 275/40 1+1	EB-3
BT 5L-WF 440/120 3P	BT 5L WF C20 275/1+N	BT 3L CM 385/40 2P	EB-4
BT 5L-WF 385/40 3P	BT 5L WF C20 275/2+N	BT 3L CM 385/40 1+1	IK 35
BT 5L 275-100	BT 5L-WF C20 320/3+N	BT 3L CM 275/60 2P	BZ 85
BT 5L 385-40	BT 5L-WF C20 320/1+N	BT 3L CM 275/60 1+1	CF 2PB1
BT 5L 385-60	BT 4L...	BT 3L CM 385/60 2P	CF 2PB2
BT 5L 150-40	BT 4L...box series	BT 3L CM 385/60 1+1	CF 2PB3
BT 5L 375/40	BT 4L-WF...box series	BT 3L DM 275/20 2P	CF 4PB1
BT 5L 320-60	BT 4L BM100 275 RM/3P	BT 3L DM 275/20 1+1	CF 4PB2
BT 5L 275-60	BT 4L BM200 275 RM/3P	BT 3L-WF 385/120 2P	CF 4PB3
BT 5L 255/BC 25(DEHN)	BT 4L PCM20 ...	BT 3L-WR 255/100 1+1 (FT)	CF 2PH
BT 5L 255/BC 25	BT 4L PCM 150/40 2+1	BT 3L 275 F	CF 4PH
BT 5L BC 25/4	BT 4L PCM 230/40 2+1	BT 3L BC25 275 F-2P	CF S6
BT 5L 385-40 WP	BT 4L PCM 275/40 2+1	B-2	CF S8
BT 5L 385-60 WP	BT 4L PCM 320/40 2+1	B-3	CF S10
BT U BCM 380/50 1+1	BT 4L PCM 385/40 2+1	B-5	CBB 200
BT U CM 275/40 1+1	BT 4L PCM 440/40 2+1	B-4	CBB 201
BT 5L WF C20 320/2+N	BT 4L PCM60 ...	B-8	CBB 300
BT 5L BM 385/60 4P	BT 4L PCM80 275/80 2+1	B-6	CBB 301
BT 5L BM 385/60 3+1	BT 4L-WP MBC 150 2+1	B-10	CBB 400
BT 5L BM 385/80 4P	BT 3L...box series	B-11	CBB 401
BT 5L BM 385/80 3+1	BT 3L-WF...box series	B-12	BMC 1UA
BT 5L BM 385/100 4P	BT 3L 255/100	B-2-6	BMC 1UB
BT 5L BM 385/100 3+1	BT 3L BC 25/2P	B-2-8	BMC 2U
BT 5L BM 385/120 4P	BT 3L 385-80	B-6-A	EBC 25R
BT 5L BM 385/120 3+1	BT 3L 385-60	BM-18-2	CH 15H
BT 5L BCM 255/50 3+1	BT 3L 385-40	BM-18-3	CH 16T
BT 5L BCM 255/100 4P	BT 3L 150-40	BM-18-4	CH 17T
BT 5L BCM 255/100 3+1	BT 3L 275-60	BM-36-2	CH 18A
CH 19L	IATR 1R	PS..GDT	BT SCB-40/2P
CH 19H(A)	ATR 301	Air termination rod	BT SCB-40/4P
CH 19H(B)	ATR 302	LT K3000	BT PCM...+SCB
CH 20L	TC-F Base	LT K3001	BT P BCM...+SCB
ATR 1R	F1 Base	LT C1500	BT P BCM 250 MG RM...Series
ATR 2C	34S/32D...MOV	LT A2988	BT P BCM 275 MG RM...Series
ATR 2R	25D/20D...MOV	BT SCB 15G	Bus bar B...
ATR 2R3	BL...GDT	BT SCB 15G/2P	PCM80...RM/1+2P
ATR 3R	3R..GDT	BT SCB 15G/4P	BT PCM120(RM)
ATR 3R1	2R..GDT	BT SCB-40	



1. SUMMARY OF TEST RESULT

EMISSION			
Description of Test Item	Standard	Limits	Results
Conducted Disturbance at Mains Terminals	EN 55014	Table 2a	Pass
Magnetic Emission	EN 55014	Table 3	Pass
IMMUNITY			
Description of Test Item	Basic Standard	Performance Criteria	Results
Electrostatic Discharge (ESD)	EN 61000-4-2	B	Pass
EFT/B Immunity	EN 61000-4-4	B	Pass
Surge Immunity	EN 61000-4-5	B	Pass

Note: N/A is an abbreviation for Not Applicable.



2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT : Surge Protection Device for Power Supply

Model Number : BT BCM 50 RM

Test Voltage : AC 230/400V(50/60Hz)

Applicant : Zhuhai Telehof Electrics Co.,Ltd

Address : 3/F ,Phase I , No.6 Jinhua Road, Xiaolin ,Hongqi Township,Jinwan District,Zhuhai City,China

Manufacturer : Zhuhai Telehof Electrics Co.,Ltd

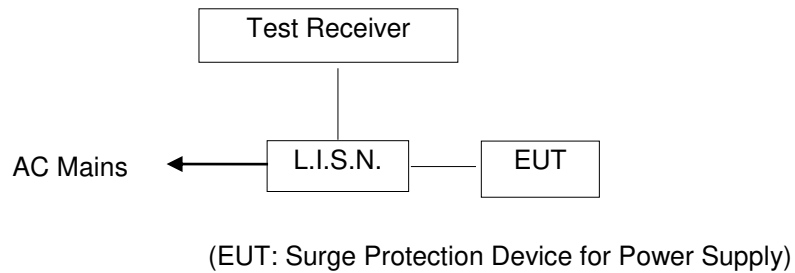
Address : 3/F ,Phase I , No.6 Jinhua Road, Xiaolin ,Hongqi Township,Jinwan District,Zhuhai City,China

Date of Received : 2023-08-12

Date of Test : 2023-08-12 to 2023-08-21

3. POWER LINE CONDUCTED EMISSION MEASUREMENT

3.1. Block Diagram of Test Setup



3.2. Measuring Standard and Limits

3.2.1. Standard: EN 55014

3.2.2. Limits

Frequency	At mains terminals (dB μ V)	
	Quasi-peak Level	Average Level
9kHz ~ 50kHz	110	--
50kHz ~ 150kHz	90 ~ 80*	--
150kHz ~ 0.5MHz	66 ~ 56*	56 ~ 46*
0.5MHz ~ 2.51MHz	56	46
2.51MHz ~ 3.0MHz	73	63
3.0MHz ~ 5.0MHz	56	46
5.0MHz ~ 30MHz	60	50

1. At the transition frequency the lower limit applies.
2. * Decreasing linearly with logarithm of the frequency.

3.3. Operating Condition of EUT

3.3.1. Setup the EUT as shown on Section 4.1.

3.3.2. Turn on the power of all equipments.

3.3.3. Let the EUT work in measuring mode (ON) and measure it.



3.4. Test Procedure

The EUT is put on the table, which is 0.8 meter high above the ground and connected to the AC mains through a Line Impedance Stabilization Network (L.I.S.N.). This provided a 50ohm coupling impedance for the tested equipments. Both sides of AC line are checked to find out the maximum conducted emission according to the EN 55014 regulations during conducted emission measurement. And the voltage probe had been used for the load terminals measurement according to the EN 55015 standard.

The bandwidth of the test receiver (R&S ESCS30) is set at 200Hz in 9k~150kHz range and 9kHz in 150k~30MHz range.

The frequency range from 9kHz to 30MHz is checked.

All the test results are listed in Section 4.5. The scanning waveform is put in the following pages.

3.5. Measuring Results

PASS.

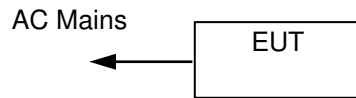
The frequency range from 9kHz to 30MHz is investigated.

Please refer to the following pages.

4. MAGNETIC FIELD EMISSION MEASUREMENT

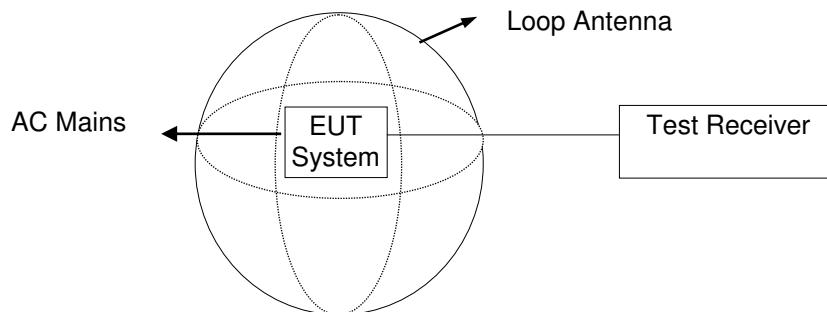
4.1. Block Diagram of Test Setup

4.1.1. Block Diagram of EUT System



(EUT: Surge Protection Device for Power Supply)

4.1.2. Block Diagram of Test Setup



(EUT: Surge Protection Device for Power Supply)

4.2. Measuring Standard and Limits

4.2.1. Test Standard

EN 55014

4.2.2. Test Limits

Frequency	Limits for loop diameter (dB μ A)	
	2m	
9kHz ~ 70kHz	88	
70kHz ~ 150kHz	88 ~ 58*	
150kHz ~ 2.2MHz	58 ~ 26*	
2.2MHz ~ 3.0MHz	58	
3.0MHz ~ 30MHz	22	

1. At the transition frequency the lower limit applies.
2. * Decreasing linearly with logarithm of the frequency.

4.3. Operating Condition of EUT

4.3.1. Setup the EUT as shown on Section 5.1.

4.3.2. Turn on the power of all equipments.

4.3.3. Let the EUT work in measuring mode (ON) and measure it.

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Tel: 0769-81710286 E-mail: wangzhao@junantest.com Website: www.junantest.com



4.4. Test Procedure

The EUT is placed on a wood table in the center of a loop antenna. The induced current in the loop antenna is measured by means of a current probe and the test receiver. Three field components are checked by means of a coaxial switch.

The frequency range from 9kHz to 30MHz is investigated. The receiver is measured with the quasi-peak detector. For frequency band 9kHz to 150kHz, the bandwidth of the field strength meter (R&S test receiver ESCS30) is set at 200Hz. For frequency band 150kHz to 30MHz, the bandwidth is set at 9kHz.

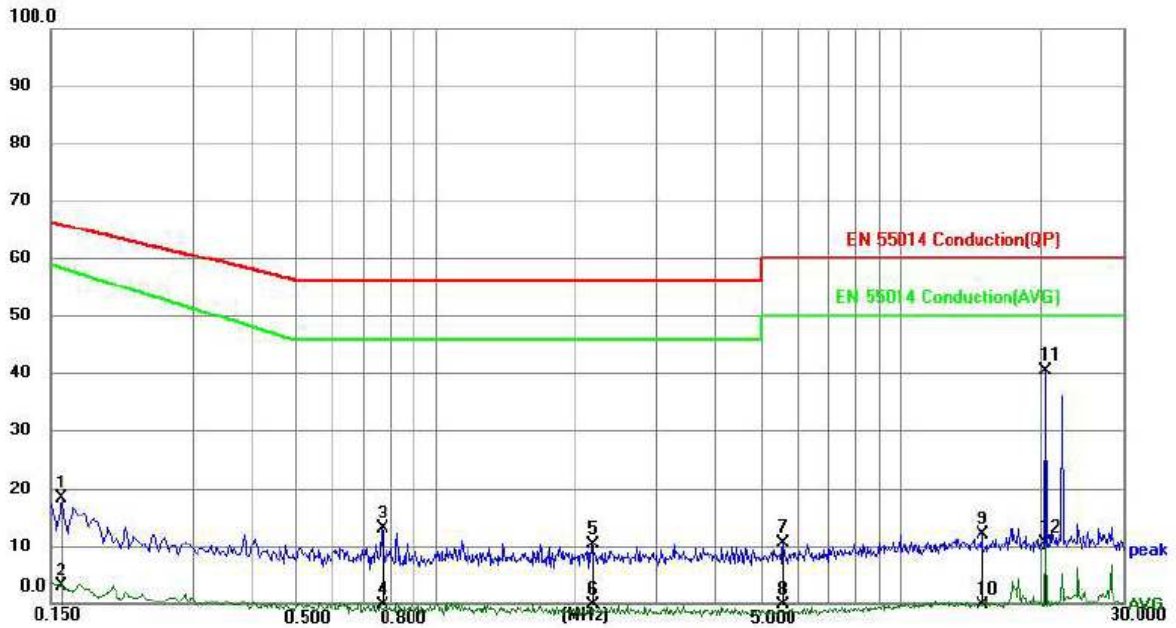
All the test results are listed in Section 5.5, and all the scanning waveform is put in the following pages.

4.5. Measuring Results

PASS.

The frequency range from 9kHz to 30MHz is investigated.

Please refer to the following pages.



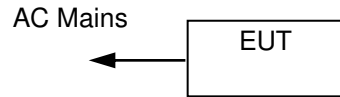
Site LAB Phase: **N** Temperature: (C)
 Limit: EN 55014 Conduction(QP) Power: Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz		dB	dBuV	dBuV	dB		
1		0.1590	8.83	9.51	18.34	65.52	47.18	peak	
2		0.1590	-6.45	9.51	3.06	58.37	55.31	AVG	
3		0.7665	3.62	9.56	13.18	56.00	42.82	peak	
4		0.7665	-10.61	9.56	-1.05	46.00	47.05	AVG	
5		2.1660	0.92	9.58	10.50	56.00	45.50	peak	
6		2.1660	-11.52	9.58	-1.94	46.00	47.94	AVG	
7		5.5815	0.84	9.68	10.52	60.00	49.48	peak	
8		5.5815	-11.19	9.68	-1.51	50.00	51.51	AVG	
9		14.9325	2.39	9.79	12.18	60.00	47.82	peak	
10		14.9325	-10.15	9.79	-0.36	50.00	50.36	AVG	
11	*	20.4720	30.64	9.84	40.48	60.00	19.52	peak	
12		20.4720	0.75	9.84	10.59	50.00	39.41	AVG	

5. RADIATED EMISSION MEASUREMENT

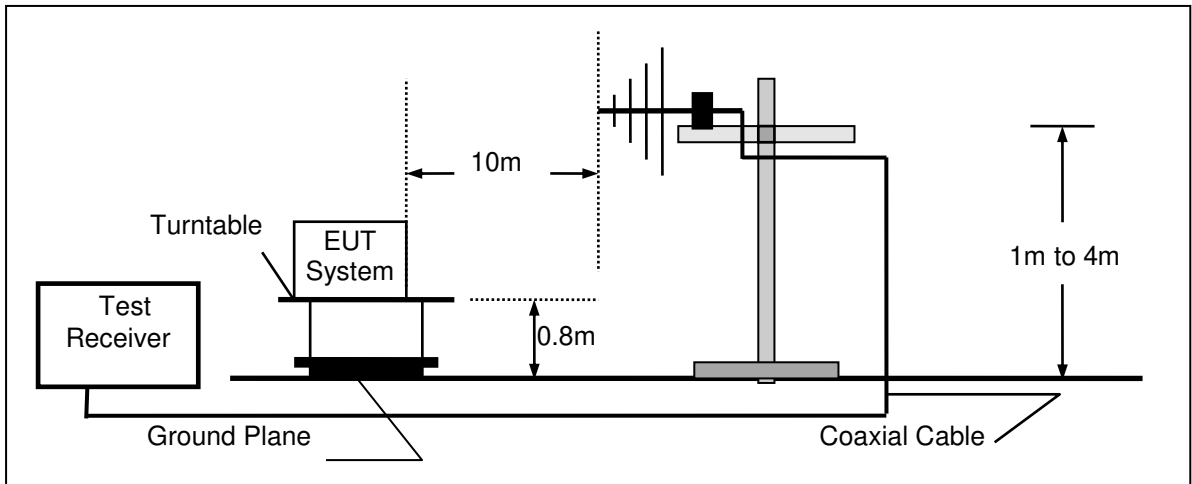
5.1. Block Diagram of Test Setup

5.1.1. Block diagram of EUT System



(EUT: Surge Protection Device for Power Supply)

5.1.2. Block diagram of test setup (In chamber)



(EUT: Surge Protection Device for Power Supply)

5.2. Measuring Standard and Limits

5.2.1. Test Standard

EN 55014

5.2.2. Test Limits

All emanations from a device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMIT (dB μ V/m)
30 ~ 230	10	30
230 ~ 300	10	37

Note: (1) The smaller limit shall apply at the combination point between two frequency bands.

(2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the EUT.

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Room 303, Building 1, No.316, Renzhou Road, Shatian Town, Dongguan City, Guangdong Province

Tel: 0769-81710286 E-mail: wangzhao@junantest.com Website: www.junantest.com



5.3. Operating Condition of EUT

- 5.3.1. Setup the EUT as shown on Section 6.1.
- 5.3.2. Turn on the power of all equipments.
- 5.3.3. Let the EUT work in measuring mode (ON) and measure it.

5.4. Test Procedure

The EUT is placed on a turntable which is 0.8 meter high above the ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna that is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Bilog antenna (calibrated by Dipole Antenna) is used as a receiving antenna. Both horizontal and vertical polarization of the antenna is set on test.

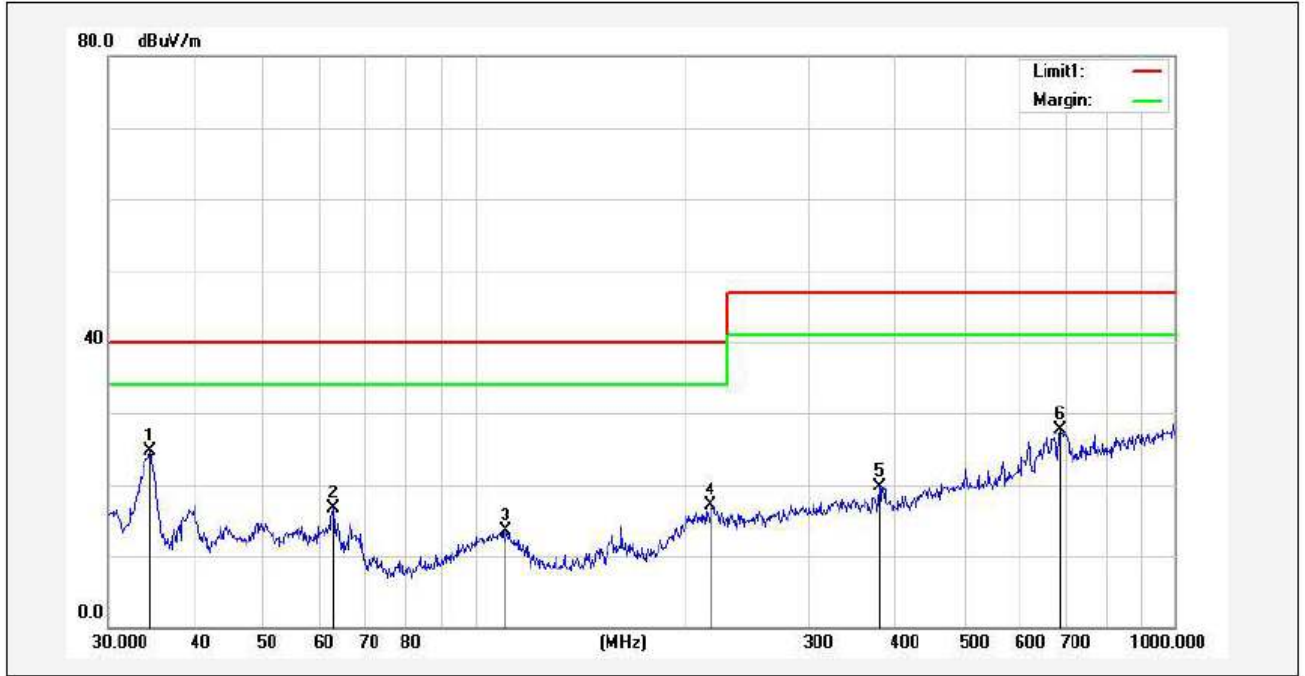
The bandwidth of the Receiver (ESU26) is set at 120kHz.
All the scanning curves are attached in the following pages.

5.5. Measuring Results

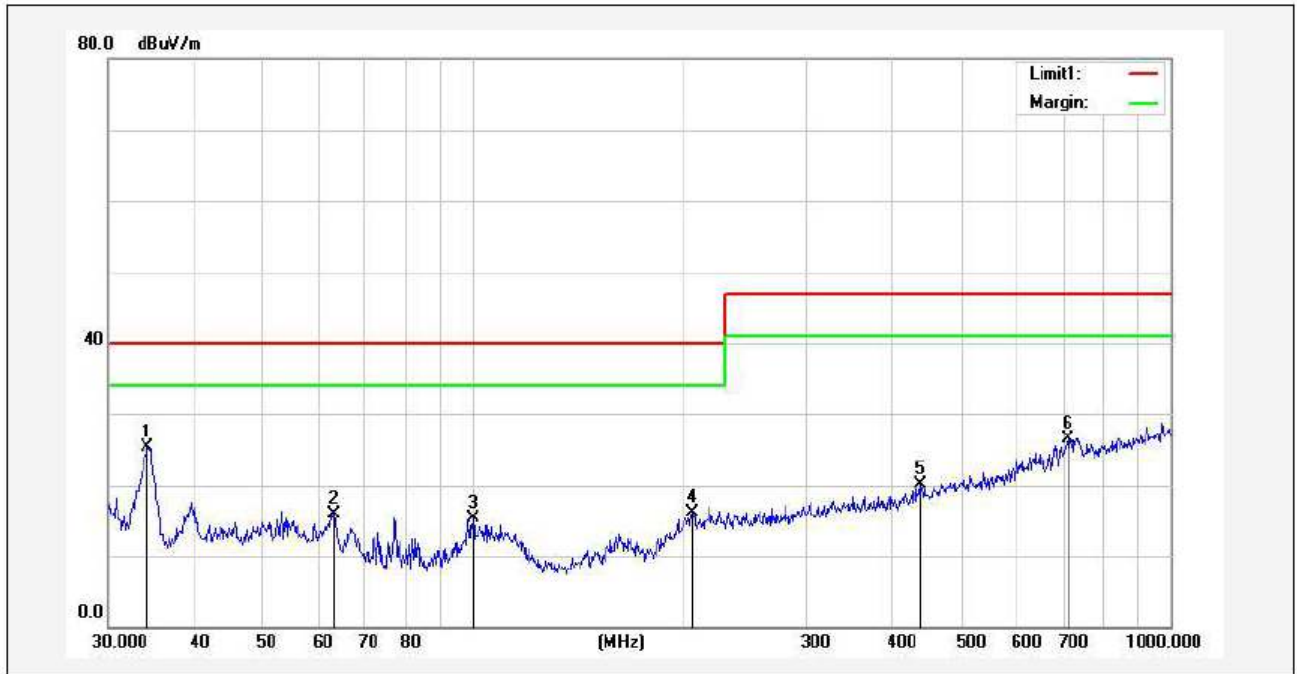
PASS.

The frequency range from 30MHz to 300MHz is investigated.

Please refer to the following pages.



No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	34.3963	40.49	-15.86	24.63	40.00	-15.37			peak
2	62.8708	35.04	-18.33	16.71	40.00	-23.29			peak
3	110.9570	30.65	-17.18	13.47	40.00	-26.53			peak
4	217.5442	32.52	-15.41	17.11	40.00	-22.89			peak
5	378.5842	32.46	-12.76	19.70	47.00	-27.30			peak
6	684.7454	34.18	-6.57	27.61	47.00	-19.39			peak



No.	Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	34.1561	41.06	-15.71	25.35	40.00	-14.65			peak
2	63.0915	34.30	-18.43	15.87	40.00	-24.13			peak
3	99.8777	33.14	-17.92	15.22	40.00	-24.78			peak
4	206.3976	31.63	-15.45	16.18	40.00	-23.82			peak
5	437.1198	31.58	-11.46	20.12	47.00	-26.88			peak
6	711.6734	32.55	-6.09	26.46	47.00	-20.54			peak



Electrostatic Discharge Test Results

Applicant	: Zhuhai Telehof Electrics Co.,Ltd		
EUT	: Surge Protection Device for Power Supply	Test Date	: 2023-08-12
M/N	: BT BCM 50 RM	Temperature	: 22°C
Power Supply	: AC 230/400V(50/60Hz)	Humidity	: 50%
Air discharge	: ± 8.0kV	Test Mode	: ON
Contact discharge:	± 4.0kV	Criterion	: B
Location		Kind A-Air Discharge C-Contact Discharge	Result
Slot		A	PASS
Metal		C	PASS
HCP		C	PASS
Front of enclosure		C	PASS
Rear of enclosure		C	PASS
Left of enclosure		C	PASS
Right of enclosure		C	PASS
Note:			



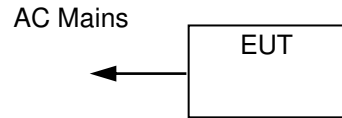
Electrical Fast Transient/Burst Test Results

Standard: <input checked="" type="checkbox"/> IEC 61000-4-4		Result: <input checked="" type="checkbox"/> PASS / <input type="checkbox"/> FAIL	
Applicant : Zhuhai Telehof Electrics Co.,Ltd			
EUT : Surge Protection Device for Power Supply			
M/N : BT BCM 50 RM			
Input Voltage: <u>AC 230/400V(50/60Hz)</u>			
Criterion : <u>B</u>			
Ambient Condition : <u>22 °C</u>		<u>50% RH</u>	
Operation Mode: ON			
Line : <input checked="" type="checkbox"/> AC Mains		Line : <input type="checkbox"/> DC Line <input type="checkbox"/> I/O Cable	
Coupling : <input checked="" type="checkbox"/> Direct		Coupling : <input type="checkbox"/> Capacitive	
Test Time : 120s			
Line	Test Voltage	Result(+)	Result(-)
L	1kV	PASS	PASS
N	1kV	PASS	PASS
PE			
L、N	1kV	PASS	PASS
L、PE			
N、PE			
L、N、PE			
Signal Line			
DC Line			
Note:			

6. SURGE IMMUNITY TEST

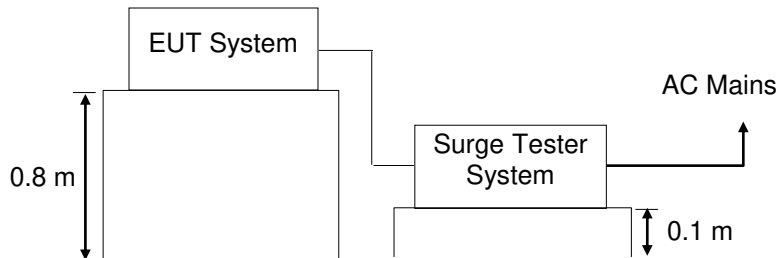
6.1. Block Diagram of Test Setup

6.1.1. Block Diagram of EUT System



(EUT: Surge Protection Device for Power Supply)

6.1.2. Surge Test Setup



(EUT: Surge Protection Device for Power Supply)

6.2. Test Standard

(EN 61000-4-5: Severity Level: Line to Line: 0.5kV)

6.3. Severity Levels and Performance Criterion

6.3.1. Severity level

Severity Level	Open-Circuit Test Voltage kV
1	0.5
2	1.0
3	2.0
4	4.0
*	Special

6.3.2. Performance criterion: B



6.4. Operating Condition of EUT

- 6.4.1. Setup the EUT as shown on Section 12.1.
- 6.4.2. Turn on the power of all equipments.
- 6.4.3. Let the EUT work in test mode (ON) and test it.

6.5. Test Procedure

- 1) Set up the EUT and test generator as shown on Section 12.1.2.
- 2) For line to line coupling mode, provide a 0.5kV 1.2/50us voltage surge (At open-circuit condition) and 8/20us current surge to EUT selected points.
- 3) At least 5 positive and 5 negative (polarity) tests with a maximum 1/min repetition rate are conducted during test.
- 4) Different phase angles are done individually.
- 5) Record the EUT operating situation during compliance test and decide the EUT immunity criterion for above each test.

6.6. Test Results

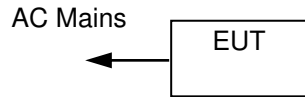
PASS.

Please refer to the following page.

7. VOLTAGE DIPS AND INTERRUPTIONS TEST

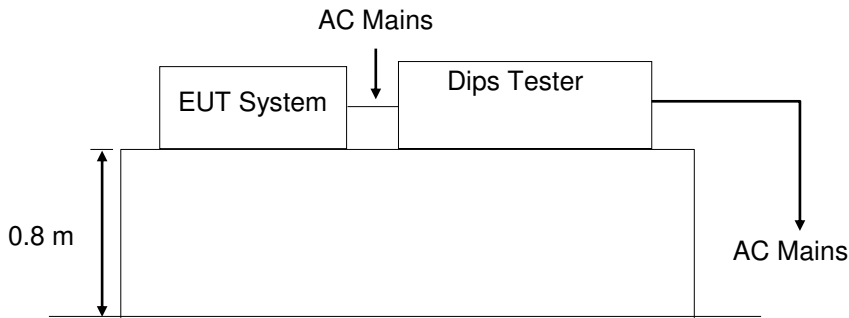
7.1. Block Diagram of Test Setup

7.1.1. Block Diagram of EUT System



(EUT: Surge Protection Device for Power Supply)

7.1.2. Dips Test Setup



(EUT: Surge Protection Device for Power Supply)

7.2. Test Standard

7.3. Severity Levels and Performance Criterion

7.3.1. Severity level

Test Level %UT	Voltage dip and short interruptions %UT	Duration (in period)
0	100	0.5
70	30	10

7.3.2. Performance criterion: B&C



7.4. Operating Condition of EUT

- 7.4.1. Setup the EUT as shown on Section 15.1.
- 7.4.2. Turn on the power of all equipments.
- 7.4.3. Let the EUT work in test mode (ON) and test it.

7.5. Test Procedure

- 1) Set up the EUT and test generator as shown on Section 15.1.2.
- 2) The interruption is introduced at selected phase angles with specified duration.
- 3) Record any degradation of performance.

7.6. Test Results

PASS.

Please refer to the following page.

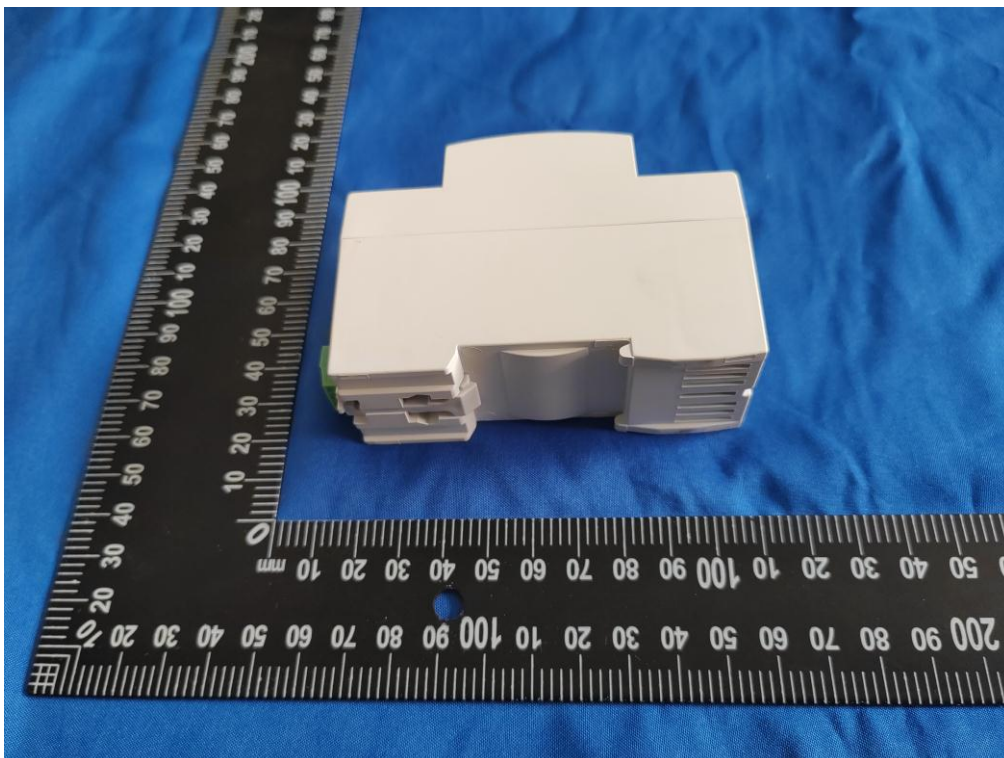
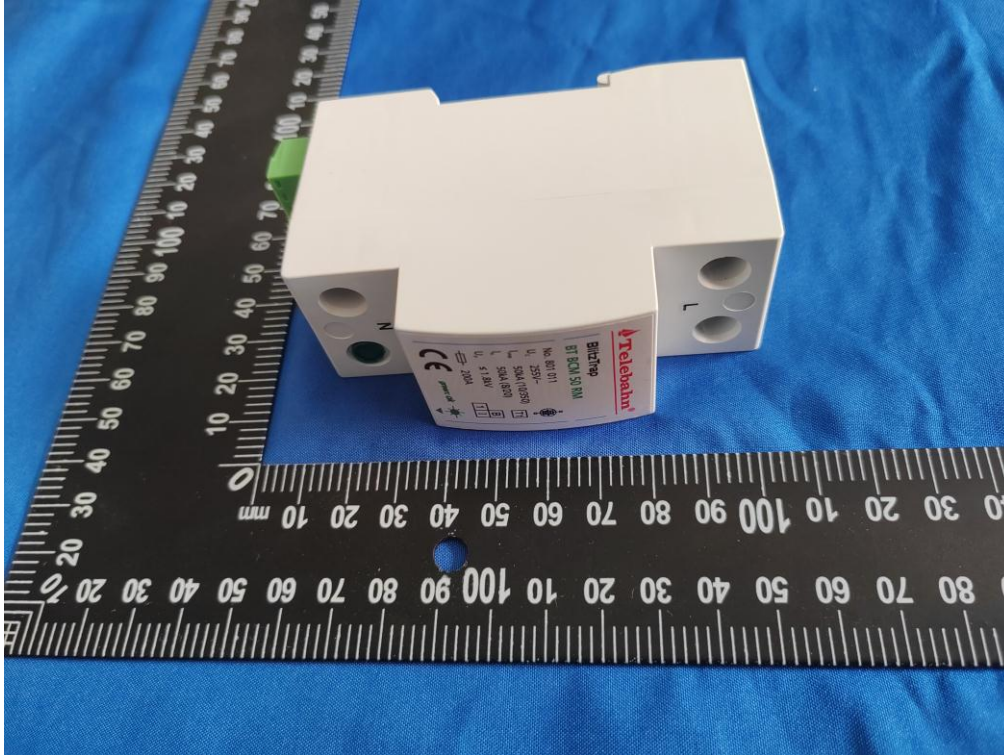


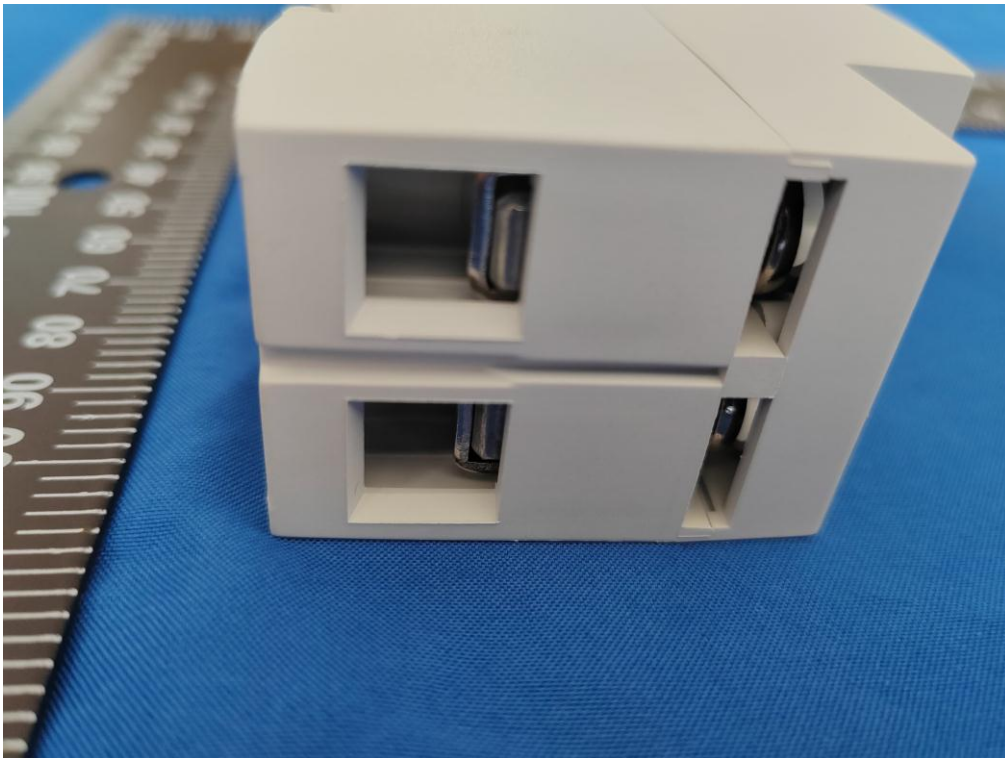
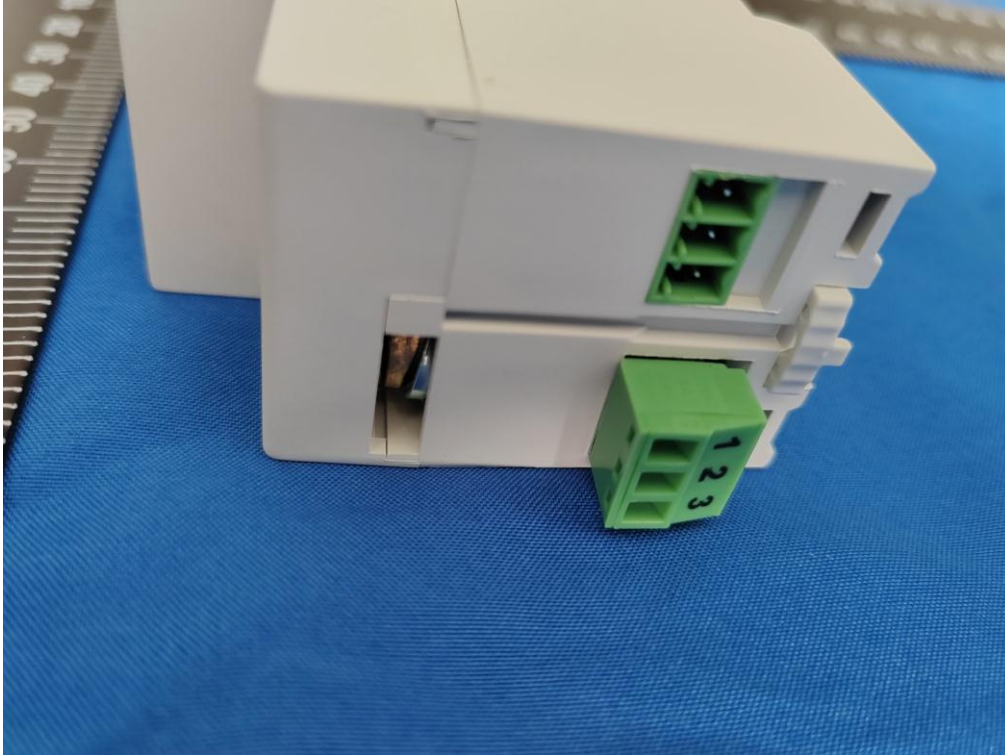
Voltage Dips and Interruptions Test Results

SHENZHEN EMTEK CO., LTD.

Applicant : Zhuhai Telehof Electrics Co.,Ltd EUT : Surge Protection Device for Power Supply M/N : BT BCM 50 RM Power Supply : AC 230/400V(50/60Hz)					Test Date : 2023-08-12 Temperature : 22°C Humidity : 50%				
Test Mode: <u>ON</u>									
Test Level % U _T	Voltage Dips & Short Interruptions % U _T	Duration 6 (in periods)	Criterion <input type="checkbox"/> A <input checked="" type="checkbox"/> B <input checked="" type="checkbox"/> C <input type="checkbox"/> D	Result P=PASS F=FAIL					
0	100	0.5P	B	PASS					
70	30	10P	C	PASS					
Test Mode : <u>N/A</u>									
Test Level % U _T	Voltage Dips & Short Interruptions % U _T	Duration (in periods)	Criterion <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D	Result P=PASS F=FAIL					
Note:									

APPENDIX (Photos of EUT Model: BT BCM 50 RM)







-----End of report-----