

Constructional Data Form for Electrical Products



(For TUV Rheinland of N.A., Inc. use only)

Certificate # CU72091416

File # 30980701.004

License Holder: **American Power Conversion**

Type of Product: **Uninterruptible Power Supply**

Model Number: **1) SMX750, 2) SMX1000, 3) SMX1500RM2U, 4) SMX1500RM2UNC**

List of Critical Components:

Object/part no.	Manufacturer/ Trademark	Type/Model	Technical Data	Standard	Mark(s) of Conformity
Enclosure	Various	Various	1.2mm thick cold rolled steel, galvanized	-	-
Input Cord (1500VA models)	WELLSHIN TECHNOLOGY CO.,LTD, or approved equivalent	650-0453A, or approved equivalent	3 wire/14ga. 8ft. type SJT	UL817	UL, cUL or CSA
Input Cord (750VA and 1000VA models)	WELL SHIN ENTERPRISES CO. LTD, or approved equivalent	650-0452A, or approved equivalent	3 wire/16ga. 8ft. type SJT	UL817	UL,cUL or CSA
Input Supplementary Protector (1500VA models)	Snap Action	MB1-20S	20A, 250V, 1000A Interrupt Capacity	UL1077	UL, CSA
Alternate - Input Supplementary Protector (1500VA models)	Mechanical Products	1600-254-200	20A, 250V, 1000A Interrupt Capacity	UL1077	UL, CSA
Input Supplementary Protector (750VA and 1000VA models)	Snap Action	MB1-15-S	15A, 250V, 1000A Interrupt Capacity	UL1077	UL, CSA
Alternate - Input Supplementary Protector (750VA and 1000VA models)	Mechanical Products	1600-144-150	15A, 250V, 1000A Interrupt Capacity	UL1077	UL, CSA

APC N.Billerica, MA 11/25/10
 John Coriello (Place) (Date)
 (Stamp and signature of applicant)

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Alternate - Input Supplementary Protector (750VA and 1000VA models)	Teknic	TR-11 W Y 63 15A	15A, 250V, 1000A Interrupt Capacity	UL1077	UL, CSA
Optocoupler – (IC401, IC402, IC419, IC423, IC424)	FAIRCHILD SEMI	H11A817B-3S	5000VRMS minimum isolation	UL1577	UL, cUL
Alternate Optocoupler – (IC401, IC402, IC419, IC423, IC424)	Any R/C	Any R/C	5000VRMS minimum isolation	UL1577	UL, cUL or CSA
Fuse – (F401)	BEL FUSE INC.	MRT4	Time Lag, 4A, 250V	UL248-1, UL248-14	UL, CSA
Alternate Fuse – (F401)	Any R/C	Any R/C	Time Lag, 4A, 250V	UL248-1, UL248-14	UL, cUL or CSA
Fuse – (F400, F402)	BEL FUSE INC.	SST5	Time Lag, 5A, 125V	UL248-1, UL248-14	UL, cUL
Alternate Fuse – (F400, F402)	Any R/C	Any R/C	Time Lag, 5A, 125V	UL248-1, UL248-14	UL, cUL or CSA
Battery Fuse	Littelfuse	299060	60A, 32Vdc	-	-
Capacitors – (C564, C570)	EVOX-RIFA, INC	PHE840	X2 type rated, 1uf, 250V min	UL1414, IEC60384-14	UL, cUL
Alternate Capacitors – (C564, C570)	Any R/C	Any R/C	X2 type rated, 1uf, 250V min	UL1414, IEC60384-14	UL, cUL or CSA
Capacitors – (C400, C402, C5 66, C567, C568, C 569)	Vishay	VY2472	Y2 type rated 4700pf, 250V min	UL1414, IEC60384-14	UL, cUL
Alternate Capacitors – (C400, C402, C5 66, C567, C568, C 569)	Any R/C	Any R/C	Y2 type rated 4700pf, 250V min	UL1414, IEC60384-14	UL, cUL or CSA

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Varistors – (MV400,MV401, MV405,MV408, MV409)	CERAMATE TECHNICAL CO., LTD	GNR20D361	230Vrms, 20mm	UL1449	UL, cUL
Alternate Varistors – (MV400,MV401, MV405,MV408, MV409)	Any R/C	Any R/C	230Vrms, 20mm	UL1449	UL, cUL or CSA
Varistors – (MV402,MV406, MV407)	CERAMATE TECHNICAL CO., LTD	GNR20D241	150Vrms, 20mm	UL1449	UL, cUL
Alternate Varistors – (MV402, MV406. MV407)	Any R/C	Any R/C	150Vrms, 20mm	UL1449	UL, cUL or CSA
Relays – (RY402, RY407)	Song Chuan Precision Ltd.	793-P-1C-C 001	SPDT, 24V coil, Contacts rated 16A, 250V	UL508	UL
Alternate Relays – (RY402, RY407)	AMERICAN ZETTLER	AZ755-1C-24D	SPDT, 24V coil, Contacts rated 16A, 250V	UL508, CAN/CSA- C22.2 No. 14	UL, cUL
Alternate Relays – (RY402, RY407)	Omron Malaysia	G2R-1-E DC24	SPDT, 24V coil, Contacts rated 16A, 250V	UL508, CAN/CSA- C22.2 No. 14	UL, cUL
Resistors Bridging Isolation (R679,R680,R6 82,R683,R712,R 713,R716,R717)	Various	Various	249K Ohm, 1/4W, SMD	-	-
Resistors Bridging Isolation (R620, R621, R690, R691, R693- R698)	Various	Various	121K Ohm, 1/4W, SMD	-	-

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Object/part no.	Manufacturer/ Trademark	Type/Model	Technical Data	Standard	Mark(s) of Conformity
Inductor (not used for isolation) – L407 (1500VA models)	Falco	420-0238-Z-001	UL Class B insulation system	UL1446	UL
Inductor (not used for isolation) – L407 (750VA and 1000VA models)	Falco	420-0127B-Z	UL Class F insulation system	UL1446	UL
Charger Transformer – T400	Falco	430-0488-Z	UL Class F insulation system	UL1446	UL
Logic Power Transformer – T402	Falco	430-0551-Z	UL Class B insulation system	UL1446	UL
Fan	Sunon	KD2408PTS1	80x80x25mm, 24VDC, 40CFM	UL507	UL
Alternate Fan	Yen Sun Technology Corp.	FD248025HS-N	80x80x25mm, 24VDC, 40CFM	UL507, CSA-C22.2 No. 113-M1984	UL, cUL
Alternate Fan	Adda Corporation	AD0824HS-A71GL (H2)	80x80x25mm, 24Vdc, 40CFM min	UL507	UL, CSA
Alternate Fan	Kaimei Electronic Corp.	JF0825S2HR015 C969R	80x80x25mm, 24Vdc, 40CFM min	UL507	UL, cUL
Alternate Fan	Yen Sun Technology Corp.	FD248025ES-N(1I9K)	80x80x25mm, 24Vdc, 40CFM min	UL507	UL, cUL
SMX 750 And SMX1000					
Alternate Fan	Adda Fan & Motor	AD0824MS-A71GL	80x80x25mm, 24VDC, 31.4CFM	UL507, CSA-C22.2 No. 113-M1984	UL, cUL E132139
Alternate Fan	Sunon	KD2408PTS3 13.A.GN	80x80x25mm, 24VDC, 31.0CFM	UL507, CSA-C22.2 No. 113-M1984	UL, cUL E77551

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Alternate Fan	ACT-RX Techology Corporation	FD2480-S3141E	80x80x25.4mm, 24VDC, 26.2 CFM	UL507, CSA- C22.2 No. 113-M1984	UL, cUL E145724

Routine Safety Testing:

Required:

Not Required:

Reason:

Class III product:

Other:

Test Details:

Dielectric Strength:

Test Points:

BI: Primary - Ground

Test Values

1700VDC, 1 second

Ground Continuity:

AC-inlet - Chassis

25A, 1s, <100mΩ

Insulation

Resistance:

Leakage Current:

Other:

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