

PID:
12100010
CID:
C.1997.3565

Certificato di approvazione

Approval certificate



**IMQ, ente di certificazione accreditato,
autorizza la ditta**

IMQ, accredited certification body, grants to

SGQ N° 005 A EMAS N° 003 P
SGA N° 006 D PRD N° 005 B
SGE N° 006 M PRS N° 080 C
SCR N° 005 F ISP N° 063 E
SSI N° 003 G LAB N° 0121
FSM N° 007 I LAT N° 021

BENTEL SECURITY SRL
VIA GABBIANO 22
64013 CORROPOLI TE
IT - Italy

Membro degli Accordi di Mutuo Riconoscimento
EA, IAF e ILAC

Signatory of EA, IAF and ILAC
Mutual Recognition Agreements

all'uso del marchio

the licence to use the mark

CSV-IMQ

**Il presente certificato è
soggetto alle condizioni
previste nel Regolamento
"MARCHI IMQ -
Regolamento per la
certificazione di prodotti" ed
è relativo ai prodotti
descritti nell'Allegato al
presente certificato.**



per i seguenti prodotti

for the following products

**Alimentatori
(Mod. BAW50T12)**

*Power supplies
(Model BAW50T12)*

*This certificate is subjected to
the conditions foreseen by Rules
"IMQ MARKS - RULES for
product certification" and is
relevant to the products listed in
the annex to this certificate.*

Emesso il / Issued on **2014-09-15**

Aggiornato il / Updated on **2016-12-23**

Sostituisce / Replaces **2014-09-15**

Scade il / Expires on **2019-12-22**

IMQ S.p.A.

Allegato - Certificato di approvazione
Annex - Approval certificate

Emesso il / Issued on 2014-09-15
Aggiornato il / Updated on 2016-12-23
Sostituisce / Replaces 2014-09-15
Scade il / Expires on 2019-12-22

Prodotto | Product

Alimentatori Power supplies

Concessionario | Licence Holder

BENTEL SECURITY SRL
VIA GABBIANO 22
64013 CORROPOLI TE
IT - Italy

Marchio | Mark



CSV-IMQ

Costruito a | Manufactured at

98001733 CLBENT.C12LCBENT+2 64013 CORROPOLI

TE Italy

Copia del presente certificato deve essere conservata presso i luoghi di produzione sopra elencati.

Copy of this certificate must be available at the manufacturing places listed above

Norme / Specifiche tecniche

Prodotto/i conforme/i alle Norme/Specifiche tecniche:

*Prodotti conformi agli obiettivi di sicurezza della Direttiva B.T.
2014/35/UE (Allegato I).*

EN 50130-4:2011

EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013

Standards / Technical specifications

Product/s complying to Standards/Technical specifications:

*Products meeting the safety objectives of Low Voltage Directive
2014/35/EU (Annex I).*

EN 50130-4:2011

EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013

Rapporti | Test Reports

SS16-0001915; SS14A0253378-01

Caratteristiche tecniche | Technical characteristics

Tensione nominale di alimentazione / Supply rated voltage **110/230 V ~**

Frequenza nominale di alimentazione / Supply rated frequency **60/50 Hz**

Corrente massima assorbita / Rated current **1.1/0.65 A**

Tensione nominale di uscita / Rated output voltage **13.8 V**

Corrente massima erogabile / Maximum output current **3.6 A**

*Capacità massima della batteria di accumulatori ricaricabile /
Maximum capacitance of the internal battery* -

- / - **17 Ah**

*Grado di protezione contro il contatto elettrico / Protection
against electric shock* **Class I**

Articoli (con dettagli) | Articles (with details)

AR.000610

Marca / Trade mark **BENTEL SECURITY**

Modello / Model **BAW50T12**

Ulteriori informazioni | Additional Information

La piena conformità alle norme EN 60950-1 e EN 50130-4 dovrà essere valutata nell'apparecchio utilizzatore. Altre caratteristiche: alimentatore switching da incorporare; c.s. codice SCP-50B-R1.

The complete compliance with EN 60950-1 and EN 50130-4 standards shall be verified on the final equipment. Further characteristics: switch mode power supplies to be incorporated; pwb code SCP-50B-R1.

Componenti | Component List

Vedere apposito elenco / See relevant annex

Emesso il | Issued on **2014-09-15**

Aggiornato il | Updated on ---

Sostituisce | Replaces ---

Scade il | Expires on **2019-12-22**

Diritti di concessione | Annual Fees

SN.0000MQ

EMR.121000.DA2W

Importo modelli CSv-IMQ - alimentatori - 1210 - Centrali ed apparati ausiliari | CSv-IMQ models - power supplies - 1210 - Central processing units and auxiliary apparatus

1

IMQ S.p.A.

Annex to Approval Certificate No. CA12.01518

Issue 1

Date: 2014-09-15

Page 1 of 4

1.5.1 TABLE: List of critical components					
Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity)
Terminal Block (TB1) (1)	DINKLE ENTERPRISE	DT-128	10A, 300V	—	UL
Terminal Block (TB1) (1)(2)	DINKLE DT	DT-4 series	20A, 300V	—	UL
Terminal Block (TB1) (1)(2)	DINKLE DT	43 series	21A, 300V	—	UL
Terminal Block (TB1) (1)(2)	DINKLE DT	45 series	25A, 300V	—	UL
Terminal Block (TB1) (1)(2)	DINKLE DT	49 series	25A, 300V	—	UL
Terminal Block (TB1) (1)(2)	DINKLE	EK -950 series	30A, 300V, V-0	—	UL
Terminal Block (TB1) (1)(2)	HOWDER	HB-95 SERIES HI-20 series	10A, 250V, V-0	—	UL
Terminal Block (TB1) (1)(2)	SWITCHLAB	T14 series, T24 series, T34 series, T35 series	20A, 300V	—	UL
Terminal Block (TB1) (1)(2)	SWITCHLAB	T44 series	15A, 300V	—	UL
Terminal Block (TB1) (1)(2)	JITE BTB	654 series	20A, 300V	—	UL
Terminal Block (TB1) (1)(2)	SWITCHLAB	MB910 series	30A, 300V	—	UL
Terminal Block (TB1) (1)(2)	SWITCHLAB	MB312	16A, 300V	—	UL
Y-capacitors (C3,C4,C22, C23,C29,C30) (Optional) (Y1, Y2 type) (1)	MURATA	KH, KX	Max. 4700pF, Min. 250V, 125°C	IEC 60384-14	VDE, UL
Y-capacitors (C3,C4,C22, C23,C29,C30) (Optional) (Y1, Y2 type) (1)(2)	WALSIN	AC, AH	Max. 4700pF, Min. 250V, 125°C	IEC 60384-14	VDE, UL
Y-capacitors (C3,C4,C22, C23,C29,C30) (Optional) (Y1, Y2 type) (1)(2)	TDK-EPC	CD, CS	Max. 4700pF, Min. 250V, 125°C	IEC 60384-14	VDE, UL
Y-capacitors (C3,C4,C22, C23,C29,C30) (Optional) (Y1, Y2 type) (1)(2)	WELSON	WD, KL	Max. 4700pF, Min. 250V, 125°C	IEC 60384-14	VDE, UL
Bleeder resistor (R6) (1)	Various	Various	Max. 680kΩ, Min.1/4W	—	—

Annex to Approval Certificate No. CA12.01518
Issue 1
Date: 2014-09-15
Page 2 of 4

Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity*)
Mains fuse (FS1) (1)	WALTER	FSD	F 3.15AL; 250V	IEC/EN 60127-2	VDE, UL
Mains fuse (FS1) (1)(2)	BEL	5 SF	F 3.15AL; 250V	IEC/EN 60127-2	VDE, UL
Mains fuse (FS1) (1)(2)	LITTELFUSE	217.XXX	F 3.15AL; 250V	IEC/EN 60127-2	VDE, UL
Mains fuse (FS1) (1)(2)	CONQUER	UFE	F 4AL; 250V	IEC/EN 60127-2	VDE, UL
X-Capacitors (C1,C2) (Optional) (X1,X2 optional used) (1)	LIOW GU	GS-L	Max. 0.6µF, 275V, 110°C	IEC 60384-14	VDE, UL
X-Capacitors (C1,C2) (Optional) (X1,X2 optional used) (1)(2)	ARCOTRONICS or KEMET	R.46	Max. 0.6µF, 300V, 110°C	IEC 60384-14	ENEC 03, UL
X-Capacitors (C1,C2) (Optional) (X1,X2 optional used) (1)(2)	ARCOTRONICS or KEMET	R.49	Max. 0.6µF, 310V, 110°C	IEC 60384-14	ENEC 03, UL
X-Capacitors (C1,C2) (Optional) (X1,X2 optional used) (1)(2)	ISKRA	KNB 1530	Max. 0.6µF, 275V, 100°C	IEC 60384-14	VDE, UL
X-Capacitors (C1,C2) (Optional) (X1,X2 optional used) (1)(2)	ISKRA	KNB 1560	Max. 0.6µF, 275V, 100°C or 300V, 125°C for VDE Max. 0.6µF, 275V, 110°C or 275V, 125°C or 300V, 125°C for UL.	IEC 60384-14	VDE, UL
X-Capacitors (C1,C2) (Optional) (X1,X2 optional used) (1)(2)	PILKOR	PCX2 335M	Max. 0.6µF, 275V, 105°C	IEC 60384-14	ENEC 14, UL
X-Capacitors (C1,C2) (Optional) (X1,X2 optional used) (1)(2)	PILKOR	PCX2 337	Max. 0.6µF, 275V, 100°C	IEC 60384-14	VDE, UL
X-Capacitors (C1,C2) (Optional) (X1,X2 optional used) (1)(2)	EPCOS	B3292#	Max. 0.6µF, 305V, 105°C	IEC 60384-14	VDE, UL
X-Capacitors (C1,C2) (Optional) (X1,X2 optional used) (1)(2)	ULTRA TECH	HQX	Max. 0.6µF, 275V, 100°C	IEC 60384-14	VDE, UL
X-Capacitors (C1,C2) (Optional) (X1,X2 optional used) (1)(2)	CHENG TUNG	CTX	Max. 0.6µF, 300V, 100°C	IEC 60384-14	VDE, UL
X-Capacitors (C1,C2) (Optional) (X1,X2 optional used) (1)(2)	SHINY SPACE	SX1	Max. 0.6µF, 300V, 100°C	IEC 60384-14	VDE, UL
X-Capacitors (C1,C2) (Optional) (X1,X2 optional used) (1)(2)	VISHAY	339	Max. 0.6µF, 275V, 105°C	IEC 60384-14	ENEC 02, UL
Thermistor (RTH1) (1)	Interchangeable	Interchangeable	Min. 3A, Max.15Ω at 25°C	—	—

Annex to Approval Certificate No. CA12.01518

Issue 1

Date: 2014-09-15

Page 3 of 4

Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity*)
Varistor (ZNR1) (optional) (1)	CENTRA SCIENCE	CNR 14D471K	300Vac, 385Vdc, 85°C (Flame class of body coating complied with V-0)	IEC61051-2 CECC 42000 CECC 42200 CECC 42201 UL1449	VDE, UL
Varistor (ZNR1)(optional) (1)(2)	JOYIN	14S471K 14N471K	300Vac, 385Vdc, 85°C (Flame class of body coating complied with V-0)	IEC61051-2 CECC 42000 CECC 42200 CECC 42201 UL1449	VDE, UL
Varistor (ZNR1)(optional) (1)(2)	NIPPON CHEMICON	TNR14V471K	300Vac, 385Vdc, 85°C (Flame class of body coating complied with V-0)	IEC61051-2 CECC 42000 CECC 42200 CECC 42201 UL1449	VDE, UL
Varistor (ZNR1)(optional) (1)(2)	THINKING	TVR10471-D TVR14471-D	300Vac, 385Vdc, 85°C (Flame class of body coating complied with V-0)	IEC61051-2 CECC 42000 CECC 42200 CECC 42201 UL1449	VDE, UL
Photo couplers (U2,U3) U2 optional used (1)	SHARP	PC123	d _{ti} =0.4mm int. d _{cr} =5mm ext. d _{cr} =8mm, thermal cycling test, 110°C	EN 60747-5-2 IEC 60950-1 IEC 60747-5-2 EN 60950-1	VDE, FI, UL, CUL, CSA
Photo couplers (U2,U3) U2 optional used (1)(2)	Lite-on	VDE: LTV-817 FI: LTV817 UL: LTV-817 may be followed by suffix M, S, STA, S TA1, S-TP	d _{ti} =0.4mm int. d _{cr} =5.2mm ext. d _{cr} =7.0mm 115°C	EN 60747-5-2 IEC 60950-1 IEC 60747-5-2 EN 60950-1	VDE, FI, UL, CUL, CSA
Photo couplers (U2,U3) U2 optional used (1)(2)	RENESAS	PS2561	d _{ti} = 0.4mm, int. d _{cr} = 4mm, ext. d _{cr} = 7mm, 100°C	EN 60747-5-2 IEC 60950-1 IEC 60747-5-2 EN 60950-1	VDE, FI, UL
Photo couplers (U2,U3) U2 optional used (1)(2)	COSMO	K1010	d _{ti} =0.6mm int. d _{cr} =5.3mm ext. d _{cr} =8mm, thermal cycling test, 115°C	EN 60747-5-2 IEC 60950-1 IEC 60747-5-2 EN 60950-1	VDE, FI, UL, CUL, CSA
Bridging capacitor (Optional) (Y1 type) (C31) (1)	MURATA	KH	Max. 2200pF, Min. 250V, 125°C	IEC 60384-14	VDE
Bridging capacitor (Optional) (Y1 type) (C31) (1)(2)	WALSIN	AH	Max. 2200pF, Min. 250V, 125°C	IEC 60384-14	VDE
Bridging capacitor (Optional) (Y1 type) (C31) (1)(2)	TDK-EPC	CD	Max. 2200pF, Min. 250V, 125°C	IEC 60384-14	VDE
Bridging capacitor (Optional) (Y1 type) (C31) (1)(2)	WELSON	WD	Max. 2200pF, Min. 250V, 125°C	IEC 60384-14	VDE

Annex to Approval Certificate No. CA12.01518

Issue 1

Date: 2014-09-15

Page 4 of 4

Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity*)
Transformer (T1)	JET SIGNAL	TF-5026	Class B	Applicable parts in IEC 60950-1 and evaluated acc. To IEC 60085	UL (E213679) accepted by TÜV Rheinland
Transformer (T1) (2)	LONG SAIL	TF-5026	Class B	Applicable parts in IEC 60950-1 and evaluated acc. To IEC 60085	Accepted by TÜV Rheinland
Transformer (T1) (2)	ELYTONE	TF-5026	Class B	Applicable parts in IEC 60950-1 and evaluated acc. To IEC 60085	Accepted by TÜV Rheinland
Transformer (T1) (2)	TEN WELL	TF-5026	Class B	Applicable parts in IEC 60950-1 and evaluated acc. To IEC 60085	Accepted by TÜV Rheinland
Transformer (T1) (2)	MEAN WELL	TF-5026	Class B	Applicable parts in IEC 60950-1 and evaluated acc. To IEC 60085	Accepted by TÜV Rheinland
Line Filter (LF1)	MEAN-WELL	LF-101	Min. 130°C	—	—
Line Filter (LF1) (2)	MEAN-WELL	LF-133	Min. 130°C	—	—
Secondary fuse (FS2) (1)	WALTER ELECTRONIC CO.	FSD	F 6.3AL; 250V	—	VDE, BSI, UL

(1) Approved component replaceable with another one also approved with equivalent characteristics.

(2) Component used as alternative.

Unless otherwise states (1) (2), the above components cannot be replaced without IMQ authorization.