



Firma / Company :	Distribution
Gerätetyp / Type :	FW7710/UK/0.7
Artikelnr. / Part-No. :	1832723
Zeichnungsnr. / Drawing-No. :	15.3126.511-00
Datum / Date :	Mar.18.2010
Sachbearbeiter Verkauf / Contact Sales :	Werk
Sachbearbeiter Mechanik / Contact Mech. Eng. :	FEWHJG
Sachbearbeiter Elektronik / Contact Elec. Eng. :	FEKVZU
Freigabe App. / Approved App.	FEPAZH
Freigabe / Approved	FELCCH

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We may ask you to return one signed copy of this specification for our records as having your approval. Unless you do not enter your objection to the latest specification issue without delay, your acceptance and release for production on the basis of this specification is deemed to be given.

Kundenfreigabe / Customer Release

Datum / Date:

Unterschrift / Signature:

Index / Rev.	Datum / Date	Name	Einzelheit / Detail
©	2010/03/18	Heaven.Li	MR2010-1-1270:change the tampoprint(Add VDE ENEC10 mark)
④	2010/06/21	Thomas Kuhn	MR2010-0-1691:change the bottom printing(add WEEE Sign)
⑤	2010/11/23	Kevin Zhou	MR2010-1-2368:1,add efficiency level ;2,add MTBF(200,000 hours mi...
①	2011/11/10	Sarah Liu	MR2011-1-2105:update inner package drawing
⑨	2012/03/01	Kuhn	MR2012-0-1173: Add the printing of folding box, see point 3.1.

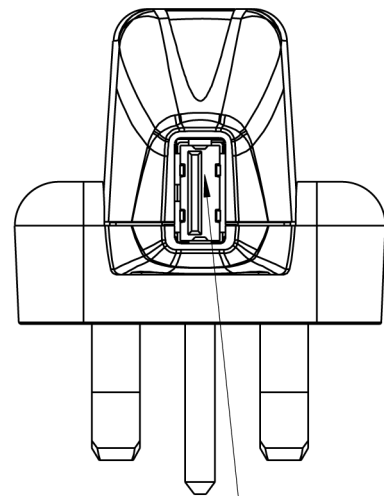
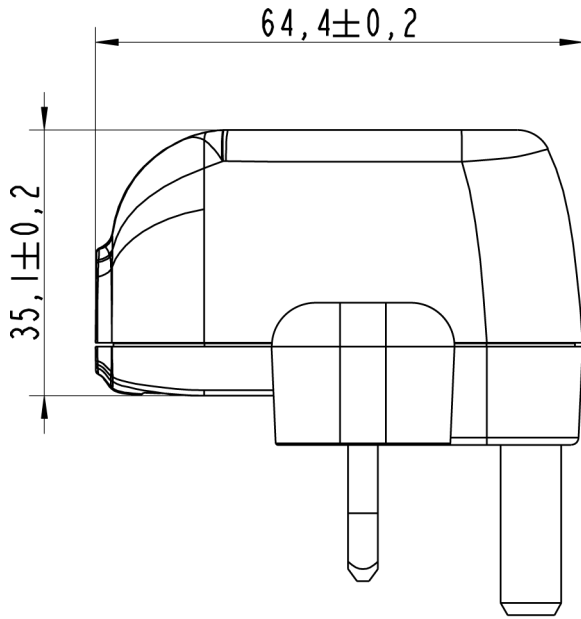
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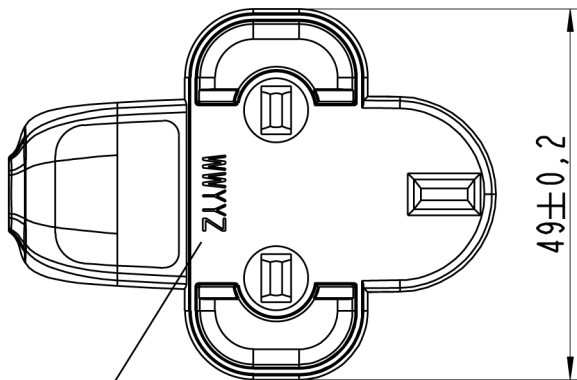
Bankverbindung / Bank Details
 Sparkasse Münsterland-Ost
 BLZ 400 501 50 (EUR) Kto. 5 000 526
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 BLZ 500 400 00 Kto. 5 811 419
 IBAN DE05 5004 0000 0581 1419 00

1 Gehäuse / Housing:

Gehäusetyp / housing-typ: PP-USBA
 Material: PC / ABS V0 125 C
 Farbe Boden/ bottom colour: schwarz / black
 Farbe Deckel/ cover colour: schwarz / black



USB socket "A" type



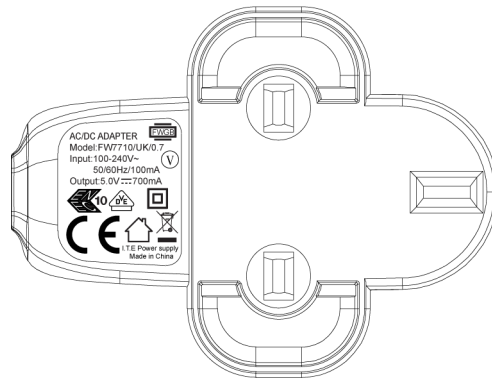
Date code:
 W=Week; Y=Year;
 Z=Factory code

2 Gehäuseaufschriften / Housing labelling:

2.1 Bodenbeschriftung / Bottom labelling

2.1.1

15.3126.501-04FO



3 Verpackung / packaging:

3.1 Einzelverpackung / individual packaging: 15.3053.556-01

mit Beschriftung * / with printing *

* AC/DC ADAPTER
SPEC.- NO.: 15.3126.
PART- NO.: 1832723
OUTPUT: 5V DC/ 0,7A
INPUT: 100-240V AC

3.1.1 Aussenabmessungen / Outer dimensions: 68mm x 69mm x 51mm

3.2 Sammelverpackung / bulk packaging: 56 er UMKARTON / Carton 56

3.2.1 Aussenabmessungen / Outer dimensions: 433mm x 338mm x 356mm

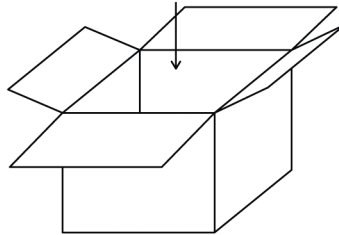
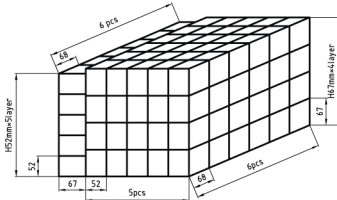
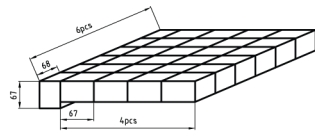
3.3 Anzahl der Geräte pro Umkarton / amount of units per master carton: :180

3.4 Gewicht pro Stück / weight per unit: 40 g

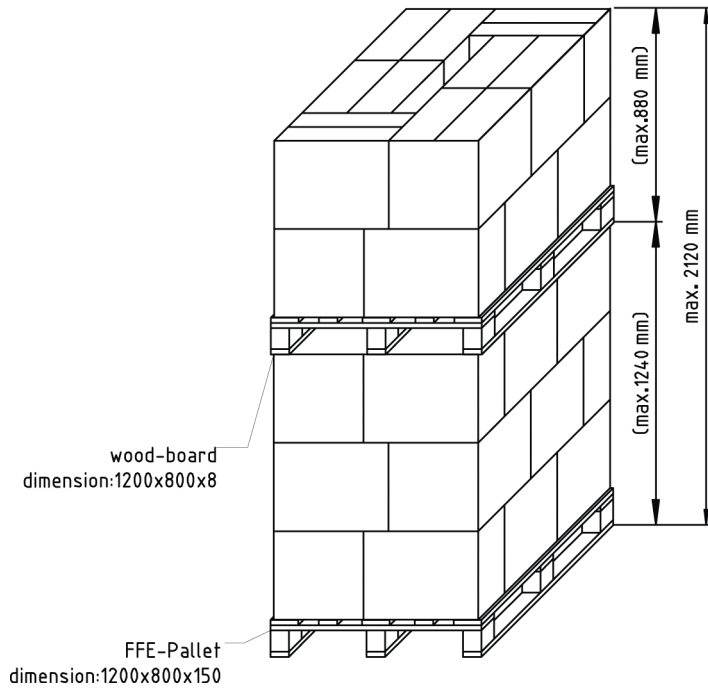
3.5 Lagertemperatur / storage temperature: -20°C - +70°C / 5 to 95 rel. hum.

3.6 Verpackungsvorschriften / packaging specification:

Inner Package



Pallet Package



Notes:

- 1) 180 pcs per carton
- 2) 6 carton per layer
- 3) 2 layer per pallet
- 4) total 2160 pcs per 2-layer-pallet

Notes:

- 1) 180 pcs per carton
- 2) 6 carton per layer
- 3) 3 layer per pallet
- 4) total 3240 pcs per 3-layer-pallet

1 stack (2-layer-pallet and 3-layer-pallet)
= (2160 pcs. + 3240 pcs.)
= 5400 pcs per stack

22 pallets (11 stacks of each type)
=59400 pcs. per 20ft container

48 pallets (24 stacks of each type)
=129600 pcs. per 40ft container

4 Allgemeine Prüfbedingungen / General test conditions:

4.1 In einem Bereich der Umgebungstemperatur von 0°C bis +40°C bei 90% relativer Luftfeuchte, keine Betauung, muss die einwandfreie Funktion des Gerätes gewährleistet sein.

Within an ambient temperature range from 0°C to +40°C at 90% relative humidity, no condensation, the faultless function of the unit must be guaranteed.

5 Elektrische Prüfbedingungen / electrical tests:

5.1 Alle nachstehend aufgeführten Werte werden bei +20°C Raumtemperatur und nach 15 Minuten Einschaltdauer gemessen.

All values listed below are measured at an ambient temperature of +20°C and after 15 minutes of operation.

5.2 Eingangsdaten / Input data:

5.2.1 Nenneingangsspannung : 100-240V AC ± 10%
Nominal input voltage : 100-240V AC ± 10%

5.2.2 Nenneingangsfrequenz : 50-60Hz
Nominal input frequency : 50-60Hz

5.2.3 Leerlaufleistungsaufnahme bei U_E : 230V AC : ≤ 0.3W
Stand-by power consumption at U_{in} : 230V AC : ≤ 0.3W

5.3 Ausgangsdaten / Output data

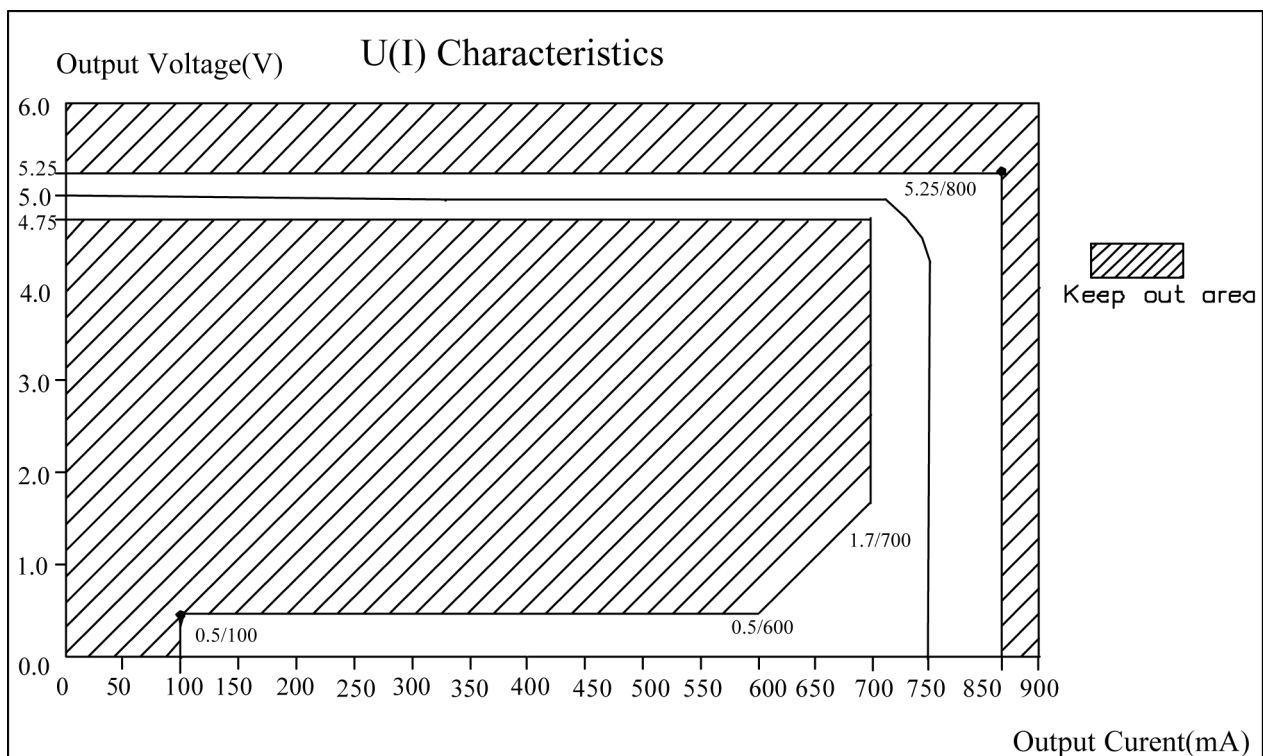
Messaufbau siehe / Measuring setup see <http://www.friwo.de>

5.3.1 Ausgangsspannung: U_A : 5V DC +5% / -5% U_{Br} : ≤ 300mVss
Nominal output voltage: U_{out} : 5V DC +5% / -5% U_{Br} : ≤ 300mVpp

Ripple&Noise Test: Add 0.1uF/50V ceramic capacitor in parallel with a 10uF/16V E-Cap across the output terminal. Measured with 20MHz Bandwidth Oscilloscope. Ripple&Noise should be less than 300mV_{p-p}.

5.3.2 Nennausgangsstrom : I_A : 700mA
Nominal output current : I_{out} : 700mA

5.3.3 Ausgangskennlinie / Output characteristic:

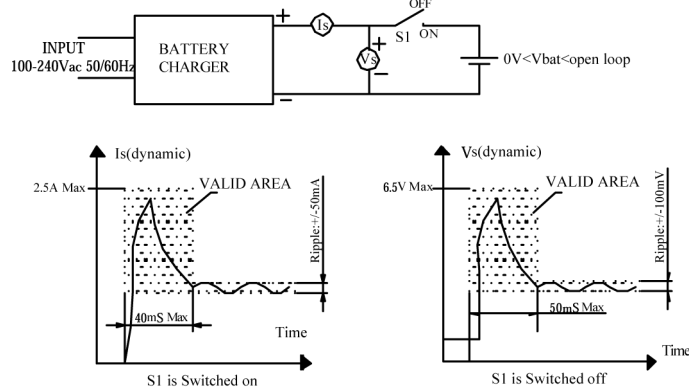


5.4 Efficiency

The efficiency should meet energy star level "V".

5.5 Dynamic output Template

The output current and voltage during transients shall meet as following figure:



5.6 Startup and Turn-on Delay

Power supply shall be able to start up into a resistive load up to the maximum rated current. The elapsed time between the application of input power and the attainment of output voltage to the nominal value shall not exceed 1 second.

5.7 Short-Circuit Protection

The power supply shall withstand a continuous output without damage. The short may be applied before power-up, or after power-up. The power supply shall resume normal operation after the short is removed.

5.8 MTBF

The mean time between failure should not be less than 200,000 hours.

6 Sicherheitsanleitung / Safety details:

Sicherheitsaufbau nach / Safety-standard: EN60950-1
acc. to

Schutzklasse / Protection class : II

Trennung (prim.-sek.) : Galvanisch durch Wandler

Separation (prim.-sec.) : Galvanic by transformer

Kriech- und Luftstrecken / Creepage distance and clearance : \geq Kr : 6.4mm, Lu : 4mm ; Cr : 6.4mm, Cl : 4mm

Ableitstrom : I Ableit \leq 250 μ A
Gemessen nach EN60950-1 siehe www.friwo.de

Leakage current : I leak \leq 250 μ A
According to EN60950-1 see www.friwo.de

Hochspannungstest / High-voltage test : \geq 3kVac

Anwendungsbereich : Einrichtungen der Informationstechnik, einschließlich elektrische Büromaschinen

Range of application : Information Technology Equipment including electrical office equipment

Umgebungstemperatur / Ambient temperature range : 0°C bis / to +40°C

8 Links & Miscellaneous

EMC-specification

8.1 Noise-suppressed: acc. to EN55024 ,55022/B and FCC part 15 B

8.2 Immunity to electrostatic discharge (ESD): acc. to EN 61000-4-2

Discharge characteristic	Test level	Assessment criteria U _{in} 120Vac	Assessment criteria U _{in} 230Vac
Air discharge	±8KV	B	B
Contact discharge	±4KV	B	B
Indirect discharge	±8KV	B	B

8.3 Immunity to radiated electromagnetic field: acc. to EN 61000-4-3 Test characteristic: 80 - 1000 MHz; 80% AM (1 kHz)

Test level	Assessment criteria
3V/m	A

8.4 Immunity to fast electric transients (burst): acc. to EN 61000-4-4

Coupling	Test level	assessment criteria U _{in} 120Vac	assessment criteria U _{in} 230Vac
AC-input	2KV	B	B
DC-output (capacitive coupling clamp)	2KV	B	B

8.5 Surge capability: acc. to EN 61000-4-5

Surge voltage	assessment criteria U _{in} 120Vac	assessment criteria U _{in} 230Vac
1KV	B	B

8.6 Immunity to conducted disturbances, induced by radio frequency fields: acc. to EN 61000-4-6

Test level	Assessment criteria
3V	A

8.7 Immunity to voltage dips, short interruptions and voltage variations.

Test acc. to EN 61000-4-11

Test performed at U_{in} = 120Vac/230VAC

Voltage dips

Test level % U _N	Voltage dips and short interruptions	duration time of voltage dips (in halfsine)	Test result U _{in} 120Vac	Test result U _{in} 230Vac
0	100	0.5	A	A
40	60	1	B	A
		5	B	B
		10	B	B
		25	B	B
		50	B	B

8.8 Assessment criteria

a. Agreed operational behaviour within the specified limits.

b. Time limited functional diminshment of malfunction during the tests is permitted. The function is self-reactivated by the unit following completion of the tests.

c. Malfunction is permitted. The function can be reactivated either by reconnection to the mains or by operator intervention.