



2015

Agenda

- **Company Profile**
- **Product Lineup Introduction**
- **Factory Tour**

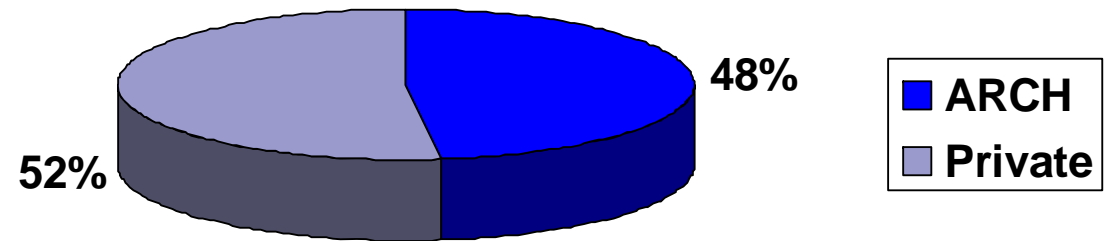
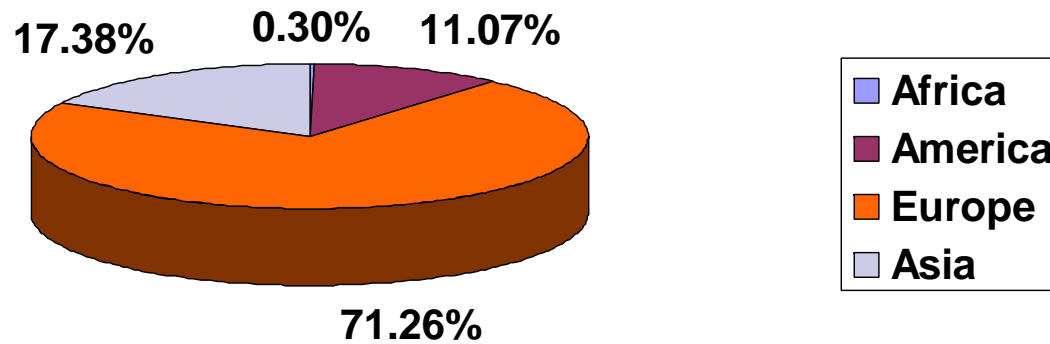
Company Overview

- **1986 ARCH established as OEM Service**
- **1989 developed ARCH Label**
- **1989 expanded into Europe Business**
- **1989 launched AC/DC, DC/DC encapsulated modules**
- **1999 acquired ISO-9001 Certification**
- **2006 launched switching products**
- **2007 launched medical encapsulated modules**
- **2007 additional factory establishment in Suzhou, China**
- **2010 launched LED drivers**

2014 Facts & Figures



2014 Sales Ratio by Region



Products are promoted in 5 continents by more than 50 distributors

Product Lineup

	<p>2W ~ 125W AC-DC Encapsulated Module</p>		<p>15W ~ 60W AC-DC Medical Power Module</p>	
	<p>60W ~ 600W Switching Power Supply</p>		<p>1.5W ~ 60W DC-DC Encapsulated Convertor</p>	
				<p>16W ~ 240W LED Drivers</p>

AC-DC Encapsulated Modules

- 2 Watts ~ 125 Watts
- Universal input range : 90~264 VAC (few 305VAC)
- Fully encapsulated plastic case
- Low Ripple & Noise
- Isolation Voltage : 3K~4K VAC
- Operating Temp. : most -40°C to +70°C (with derating)
- All power outputs can be regulated
- 3-year warranty



Green Power Series (2W ~ 8W)



- Max no-load wattage <0.3W
- Universal input range : 90~264V
- Operating temperature : -40°C to +70°C
- Isolation 3K~4KVAC
- UL,CE,CB approval

Model No.	Output Power (Watt)	Input Range (VAC)	Output Model (VDC)	Output Type
AZC / AYC	2W	90~305V	3.3, 5, 9, 12, 15, 24	Single
AIC	3 W	90~264 V	3.3, 5, 9, 12, 15, 24	Single
AOC	4 W	90~264 V	S: 3.3, 5, 8, 9, 12, 14, 15, 24 D: 5/3.3, 8/5, 12/5	Single / Dual
AOCH	4 W	90~305 V	S: 3.3, 5, 8, 9, 12, 14, 15, 24 D: 5/3.3, 8/5, 12/5	Single / Dual
AHC AHC-E1	5 W	90~264 V	3.3, 5, 12, 15, 24	Single
AUC	7 W	90~264 V	5, 12, 15, 24	Single
ALC	8W	90~264 V	S: 3.3, 5, 8, 9, 12, 14, 15, 24 D: 5/3.3, 8/5, 12/5	Single / Dual
AHC08	8 W	90~264 V	S: 3.3, 3.8, 5, 8, 9, 12, 14, 15, 24 D: 5/3.3, 8/5, 12/5	Single / Dual

Economical Series (10W ~ 30W)



- Universal input 90~264V
- Isolation Voltage : 3K~4KVAC
- Operating temperature : -40°C to +70°C
- With UL, CE and CB certificates.

Model No.	Output Power (Watt)	Input Range (VAC)	Output Model (VDC)	Output Type
AFC(-E1)	10 W	90~264 V	3.3, 5, 12, 15, 24	Single
APCN ATCN ANCN	15 W	90~264 V	5, 12, 15, 24	Single
AVC	15 W	90~264 V	5, 12, 15, 24	Single
AFC20	20 W	90~264 V	3.3, 5, 12, 15, 24	Single
AKC	20 W	90~264 V	S:3.3,5,7.35,9,12,15,24 D: ±5, ±12, ±15 T: 5/±12, 5/±15	Single / Dual / Triple
ATC30	30W	90~ 305V	3.3, 5, 12, 15, 24	Single
ASC	30W	90~264V	S: 3.3,5,12,15,24 D: ±5, ±12, ±15 T: 5/±12, 5/±15	Single / Dual / Triple

Medical Series (15W ~ 60W)



- Universal input 90~264V
- Isolation Voltage : 4KVAC
- Operating temperature : -40°C to +80°C
- With UL, CE and CB certificates.

Model No.	Output Power (Watt)	Input Range (VAC)	Output Model (VDC)	Output Type
MFC15	15 W	90~264 V	5, 9, 12, 15, 24	Single
MTC	15 W	90~264 V	S: 3.3, 5, 7.35, 12, 15, 24 D: ±5, ±12, ±15	Single
MTC30	30 W	90~264 V	5, 12, 15, 24	Single
MSC	40 W	90~264 V	S: 3.3, 5, 9, 12, 15, 24 D: ±5, ±12, ±15, ±24 T: 5/±12, 5/±15	Single
MSC60	60 W	90~264 V	5, 9, 12, 15, 24	Single

Economical Series (40W ~ 125W)



- Universal input range : 90~264V
- Isolation Voltage : 3K~4KVAC
- Operating temperature: -40°C to +70°C
- With UL, CE and CB certificates.

Model No.	Output Power (Watt)	Input Range (VAC)	Output Model (VDC)	Output Type
AJC	40 W	90~264 V	S: 3.3, 5, 9, 12, 15, 24 D: 5,12,15, 5S12S, 5S24S T: 5S12D, 5S15D	Single / Dual / Triple
ANC50	50W	90~264 V	5, 12, 15, 24, 48	Single
AEC60	60 W	90~264 V	5, 9, 12, 15, 24, 48	Single
AQC100	100 W	90~264 V	12, 15, 24, 48	Single
AQC125	125W	90~264 V	12, 15, 24, 48	Single

Highly Efficient Series (1.5W ~ 60W)



- Wide input range : 9~75VDC
- Isolation Voltage : 1600VAC
- Operating temperature : -40°C to +85°C
- Some with UL, CE certificates.

Model No.	Output Power (Watt)	Input Range (VDC)	Output Model (VDC)	Output Type
SB1R5	1.5 W	4.5 ~ 5.5 10.8 ~ 13.2 21.6 ~ 26.4 43.2 ~ 52.8	S: 5, 12, 15, 24 D: ± 5 , ± 12 , ± 15	Single / Dual
SB05	5 W	4:1 range 9 ~ 36 18 ~ 75	S: 3.3, 5, 12, 15, 24 D: ± 5 , ± 12 , ± 15	Single / Dual
ZA05			S: 3.3, 5, 12, 15, 24 D: ± 5 , ± 12 , ± 15	Single / Dual
ZC05			S: 3.3, 5, 12, 15, 24	Single
SB08	8 W	2:1 range 9~18 18~36 36~75	S: 3.3, 5, 12, 15, 24 D: ± 5 , ± 12 , ± 15	Single / Dual
SH08		4:1 range 9~36 18~75		

Highly Efficient Series (1.5W ~ 60W)

Model No.	Output Power (Watt)	Input Range (VDC)	Output Model (VDC)	Output Type
SH10	10 W	2:1 range 9~18 18 ~ 36 36 ~ 75	S: 5, 12, 15, 24 D: ± 5 , ± 12 , ± 15	Single / Dual
ST10		2:1 range 9~18 18 ~ 36 36 ~ 75 4:1 range 10~40 18~75	S: 5, 12, 15, 24 D: ± 5 , ± 12 , ± 15	Single / Dual
SW15	15 W	2:1 range 9~18 18~36 36~75	S: 3.3, 5, 12, 15, 24 D: ± 5 , ± 12 , ± 15	Single
ST15		2:1 range 9~18 18~36 36~75 4:1 range 10~40 18~75	S: 3.3, 5, 12, 15, 24 D: ± 5 , ± 12 , ± 15	Single / Dual
ZB15		2:1 range 9~18 18~36 36~75 4:1 range 9~18 18~75	S: 3.3, 5, 12, 15, 24	Single / Dual

Highly Efficient Series (1.5W ~ 60W)

Model No.	Output Power (Watt)	Input Range (VDC)	Output Model (VDC)	Output Type
SW20	20 W	2:1 range 9 ~ 18 18 ~ 36 36 ~ 75	S: 3.3, 5, 12, 15	Single
ST20		2:1 range 9 ~ 18 18 ~ 36 36 ~ 75	S: 2.5, 3.3, 5	Single
ST30	30 W	2:1 range 18 ~ 36 36 ~ 75	S: 2.5, 3.3, 5, 12, 15, 24 D: ± 5 , ± 12 , ± 15	Single / Dual
SW30		4:1 range 9 ~ 36 18 ~ 75	S: 3.3, 5, 12, 15	Single
ST60	60 W	4:1 range 9 ~ 36 18 ~ 75	S: 5, 12, 15, 24	Single

AC-DC Switching Power Supply

- 60 Watts to 600 Watts
- Universal Input: 90- 264 VAC
- High efficiency up to 93%
- All with active PFC, PF>0.95
- Low leakage current < 250uA
- Isolation Voltage 3K VAC or 4K VAC
- O/U/E/D optional structures



High Efficiency (60W ~ 160W)



- 3000-4000 VAC Isolation
- CE/UL Safety Approval
- Single Output
- 3-Year Product Warranty

Model No.	Package Style	Output Power (Watt)	Input Range (VAC)	Output Type
AES60	Open / U / E / D	60	90~264 V	5, 9, 12,15,24,48
SZA60	Open/ U bracket	60	90~264 V	5,12,15,24,48
AQF100C (C.C.mode)	Open	100	90~264 V	12,15,24,48
AQF100O (C.V.mode)	Open	100	90~264 V	12,15,24,48
AQF120	Open / U / E / D	120	90~264 V	5, 12,15, 24, 48
AQF160	Open	160	90~264 V	12,15, 24, 48

High Efficiency (240W ~ 600W)



- 3000-4000 VAC Isolation
- CE/UL Safety Approval
- Single Output
- 3-Year Product Warranty

Model No.	Package Style	Output Power (Watt)	Input Range (VAC)	Output Type
AQF240	U / E / D	240	90~264 V	5,12,24,28,32,48
AQF360	U Bracket / Enclosed	360	90~264 V	12,24,36,48
AQFC480 (C.C. mode)	U Bracket / Enclosed	480	90~264 V	12,24,36,48
AQFV480 (C.V. mode)	U Bracket / Enclosed	480	90~264 V	12,24,36,48
AQF500	Open	500	90~264 V	12, 24, 48
AQF600	Enclosed	600	90~264 V	12,24,36,48

High-end LED Drivers

- High density, reliability & efficiency
- Constant voltage & constant current modes available
- Adjustable output voltage & current level (IP65 only)
- Universal input range
- Built-in active PFC, PF>0.9
- IP65 / IP67 water resistance
- Free air convection
- Double-layered PCB
- Over-load, over-voltage & short-circuit protection
- 3 -year product warranty



IP65
IP67



LED Driver – PLF Series

- 16W, 25W, 30W & 60W for options
- All models with PFC, PF>0.90
- IP65 for PLF16 & 25
- IP67 for PLF30 & PLF60
- Protection: Over-load / over-voltage / short-circuit



Model No.	Output Power (Watt)	Input Range (VAC)	Output Model (VDC)	Output Type
PLF16	16 W	90~264 Vac	15.6, 24, 48	Single
PLF25	25 W	90~264 Vac	18, 24, 36, 58	Single
PLF30	45 W	90~264 Vac	13.5, 24, 48	Single
PLF60	60 W	90~264 Vac	13.5, 24, 28, 48, 54	Single

LED Driver – ZQF Series

- Available in 30Watts and 60Watts,
- With constant current and constant voltage features, and adjustable output current & voltage function.
- All models with PFC, PF>0.90
- Open-frame type



Model No.	Output Power (Watt)	Input Range (VAC)	Output Model (VDC)	Output Type
ZQF30	30 W	90~264 V	13.5, 24, 48	Single
ZQF60	60 W	90~264 V	13.5, 24, 28, 48, 54	Single

LED Driver – ALF Series

- With active PFC, PF > 0.95
- Efficiency of over 90%
- Constant current & constant voltage
- Dimmable function
- IP65 & IP67 level
- Better heat dissipation



Model No.	Output Power (Watt)	Input Range (VAC)	Output Model (VDC)	Output Type
ALF100	100	90~264 V	12, 15, 24, 36, 48	Single
ALF150	150	90~264 V	12, 24, 36, 48, 54	Single
ALF240	240	90~264 V	12, 24, 36, 48, 54	Single

Circuit Design

With PFC	Single Stage				PFC+ PWM		
	Open	Encapsulated			Open	Encapsulated	
		Class I	Class II			Class I	Class II
16-25W			PLF16				
			PLF25				
30-60W	ZQF30®		PLF30	60-80W	AQF60C	ALF60	
	ZQF60®		PLF60		AQF80C	ALF80	
60-100W	ZLF60	QLF60	PSF60	100-150W		ALF100	APF100
	ZLF75	QLF75	PSF75			ALF150	APF150
	ZLF100	QLF100	PSF100				
				240W		ALF240	

Production Applications



AC-DC
AC-DC
Switching
DC-DC
AC-DC
Medical
LED
Power



Production Applications



AC-DC
AC-DC
Switching

DC-DC

AC-DC
Medical

LED
Power



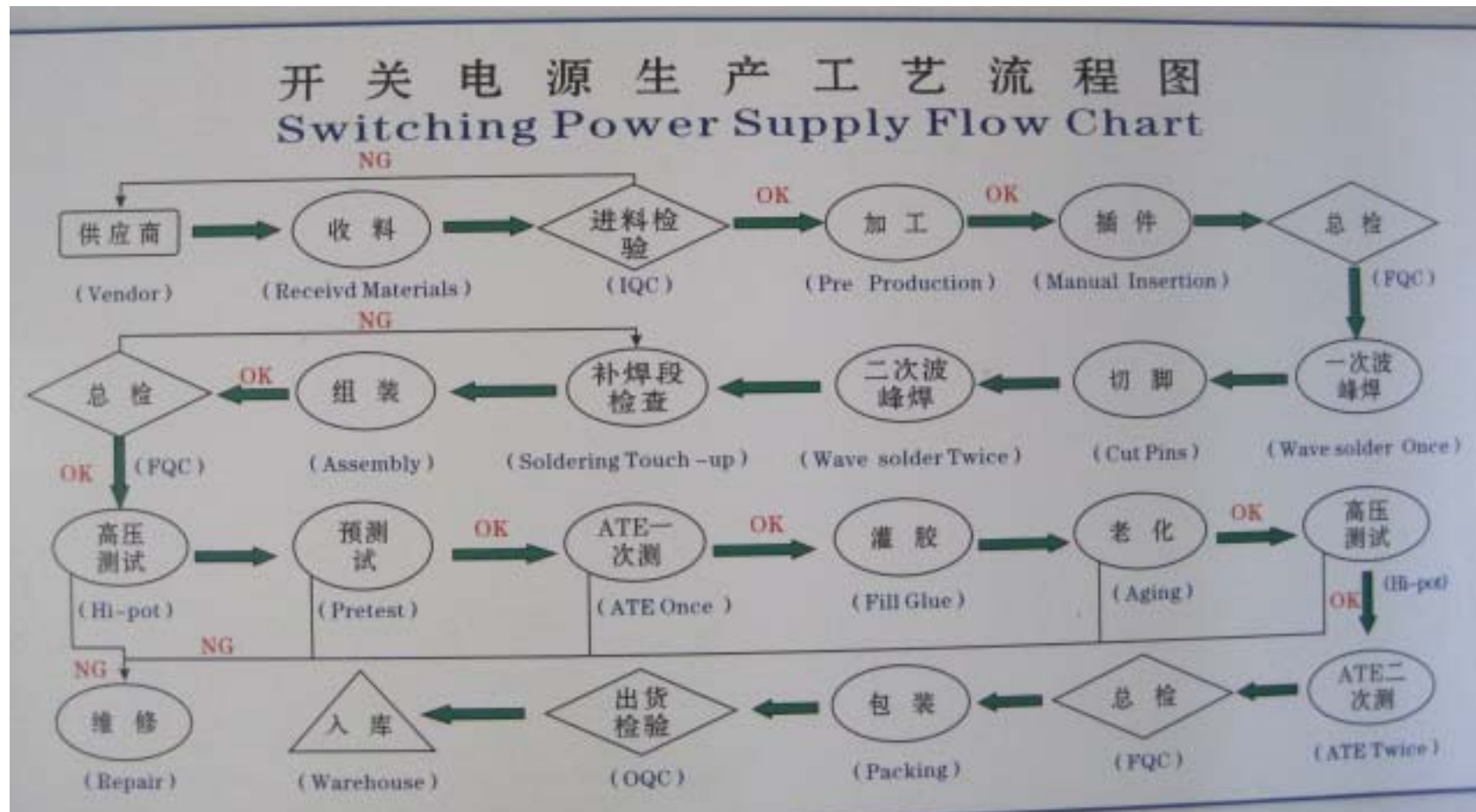
ARCH SUZHOU, CHINA



Suzhou Office



Production Process



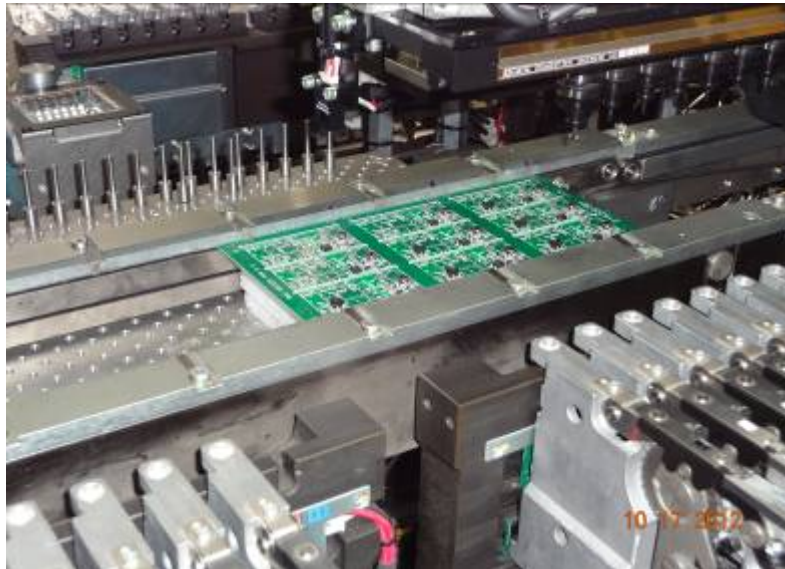
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Production Line



DIP Process



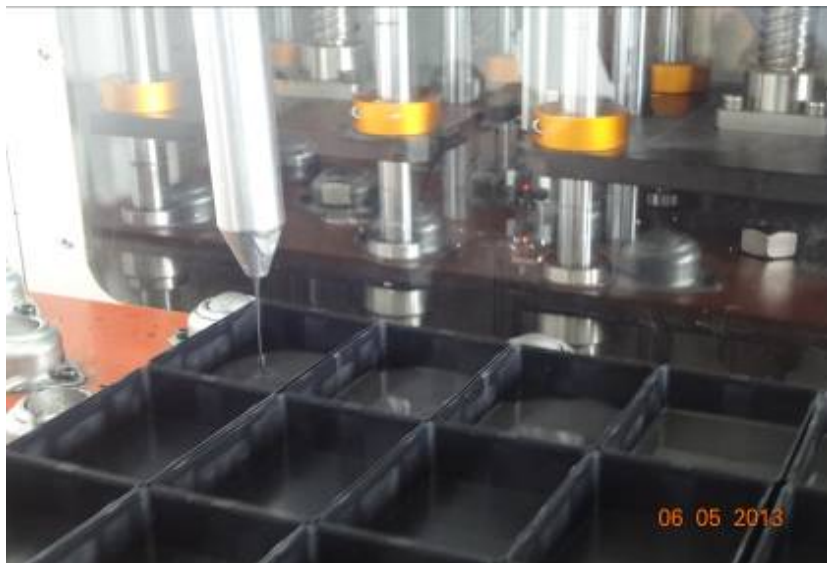
SMD Equipment



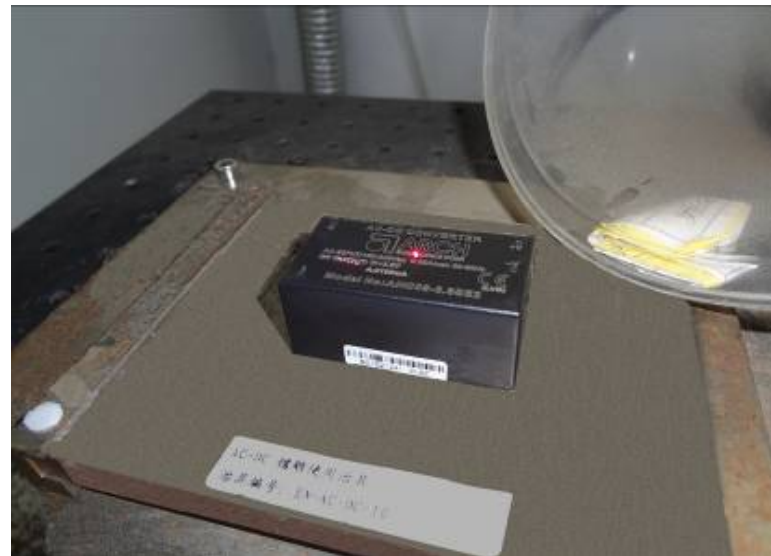
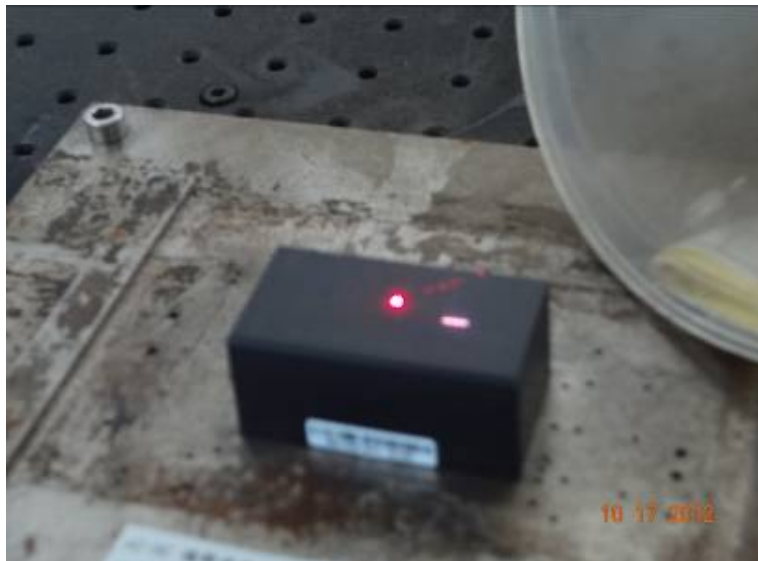
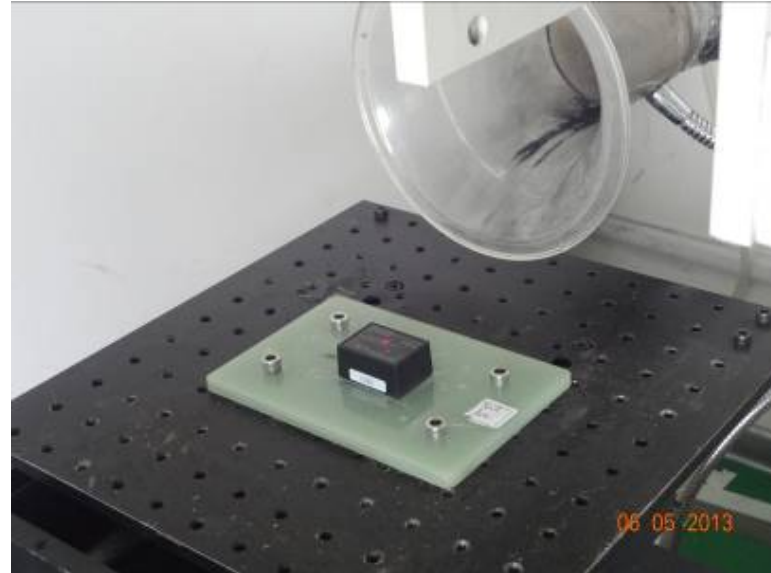
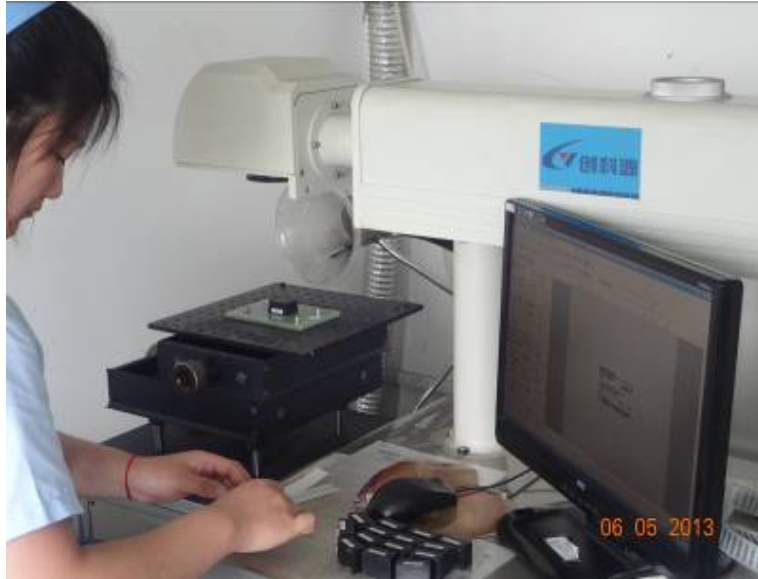
Transformer Production & Inspection



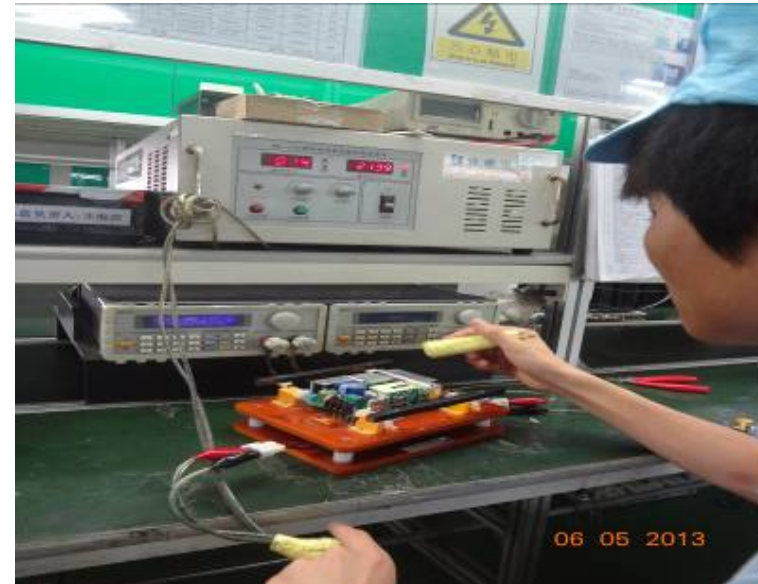
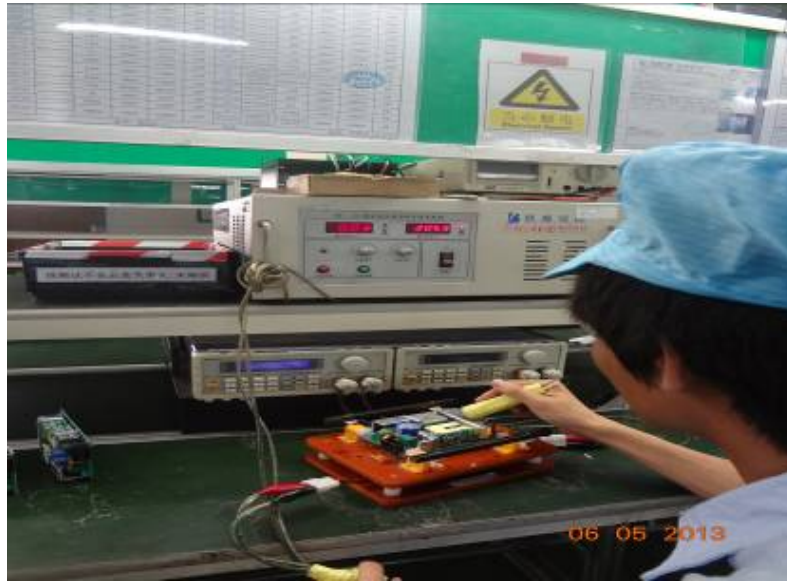
Potting Compound Dispenser



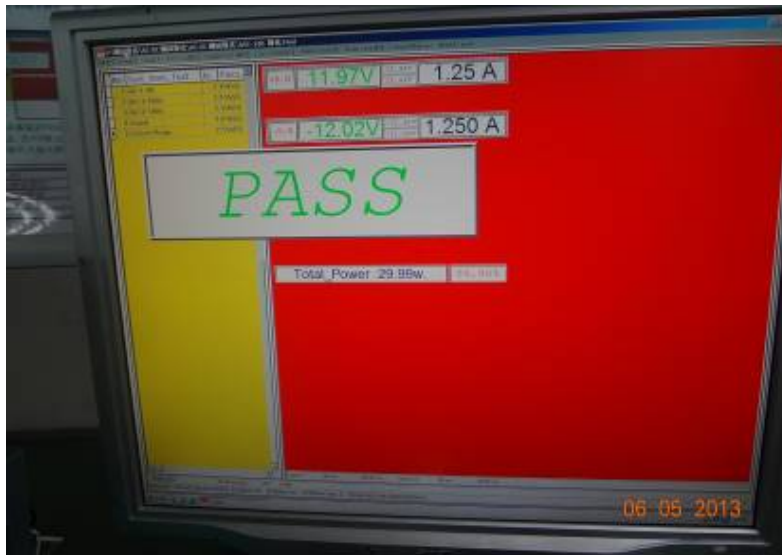
Laser Printing



HI-POT Test



ATE Test

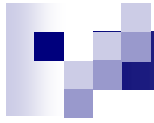


Aging Test



Appearance Check-up & Packing





Thank you for your attention !