

## ■用途 Usage

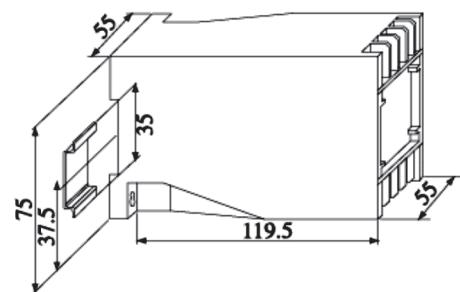
LA-12/LV-12型单相电流/电压变送器是一种将电网中的电流、电压参数，经隔离变送成线性的直流模拟信号的装置。产品符合国家标准GB/T13850-1998。

LA-12/LV-12 single phase current/voltage transducer is a device which can isolate and transmit electric parameters,such as current ,voltage,into linear DC analog signal .It meet the requirements of National standard GB/T13850-1998.

## ■技术参数 Technical parameters

输入标称值 Input nominal value	电流Current :1Aac ,5Aac;电压Voltage:100Vac,150Vac,300Vac,600Vac
输入过载 Input overload	持续2倍, 瞬时电流10倍/5秒; 瞬时电压2倍/30秒 Continual 2times,instantaneous current 10times/5Sec.;instantaneous voltage 2
输入负载 Input overload	电流互感器: ≤0.2VA, 电压互感器: ≤0.1VA Current transformer(CT)≤0.2VA,Voltage transformer(PT)≤0.1VA
精度 Accuracy	≤±0.2%R.O.
响应时间 Response time	<400mSec.
输出电压 Output voltage	0~10Vdc,1~5Vdc,0~5Vdc,and special
输出电流 Output current	4~20mAdc,0~20mAdc,0~10mAdc,and special
输出波纹 Output ripple	<0.5%R.O.
输出负载 Output overload	电流输出时<750Ω,电压输出时>1000Ω Output current <750Ω,Output voltage>1000Ω
输出满度校调 Span adjustment	≤±20% of R.O.
输出零点校调 Zero adjustment	≤±20% of R.O.
工作电源 Power supply	AC220V±10%、AC110V、DC220V、DC110V、DC24V±20%
电源功耗 Consumption	直流供电<3W,交流供电<4VA DC Power <3W,AC Power <4VA
外壳材料 Case material	ABS
隔离 Isolation	输入/输出/电源/外壳 互相隔离 Between input/output/power/case
耐压强度 Insulation voltage	AC4KVrms/min
绝缘阻抗 Insulation resistance	>100MΩ,DC500V
工作环境温湿度 Operating temperature humidity	— 10℃~55 ℃ , <80%相对湿度 (无冷凝状态) — 10℃~55 ℃ , <80%Relative humidity(non-condensing)
储存环境温湿度 Storage temperature humidity	— 20℃~70 ℃ , <70%相对湿度 (无冷凝状态) — 20℃~70 ℃ , <70%Relative humidity(non-condensing)
外型尺寸 Case dimension	119.5 mm(长) ×55mm (宽) ×75mm (高) 119.5 mm(Length) ×55mm (Width) ×75mm (Height)
安装方式 Mounting	标准导轨35mm,或螺钉固定 DIN rail 35mm,or fix to cubicle with bolt
重量 Weight	<200克 <200g

■ 外型尺寸 Dimension



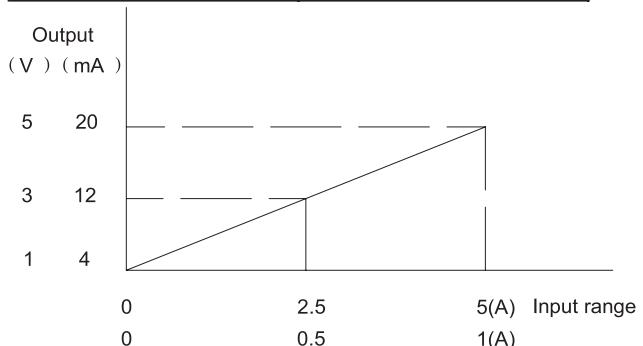
■ 选型代码 Model Code

企业代码	功能代码	接线方式	输入代码	输出代码	工作电源
Company code	Function code	Wiring	Input code	Output code	Aux.power
L	A 电流 Current	12 单相二线 Single phase	A5 0~5A	A4 4~20mA	A2 AC220V
	V 电压 Voltage		A1 0~1A	A2 0~20mA	A1 AC110V
	AT Current trms		A10 0~10A	V1 0~10V	D2 DC220V
	VT Voltage trms		V1 0~100V	V5 0~5V	D1 DC110V
			V11 0~110V	V15 1~5V	D DC24V
			V12 0~120V	V0 0~1V	Y Special
			V2 0~220V	Y Special	
			V3 0~300V		
			V5 0~450V		
			Y Special		

■ 订货范例 Order example

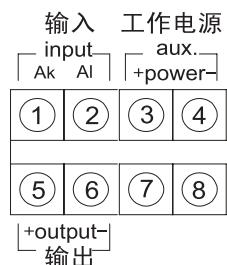
型号 Model : LA12A5A4A2  
 输入 Input : 1P2W, 0~5Aac, 50Hz  
 输出 Output : 4~20mAdc  
 工作电源 Aux.power : AC220V

■ 输入、输出曲线图 Input、Output curve

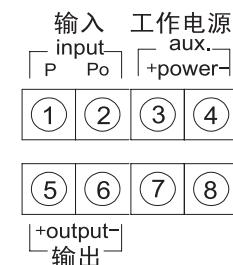


■ 接线图 Connection Diagram

单相电流变送器  
Single phase Current Transducer



单相电压变送器  
Single phase Voltage Transducer



## LATH-12/LVTH-12型 薄型单相电流/电压变送器

## LATH-12/LVTH-12 Slim type single phase current / voltage transducer

### ■用途 Usage

LATH-12/LVTH-12型薄型单相电流/电压变送器是一种将电网中的电流、电压参数，经隔离变送成线性的直流模拟信号的装置。产品符合国家标准GB/T13850-1998。

LATH-12/LVTH-12 slim type single phase current/voltage transducer is a device which can isolate and transmit electric parameters,such as current ,voltage,into linear DC analog signal .It meet the requirements of National standard GB/T13850-1998.

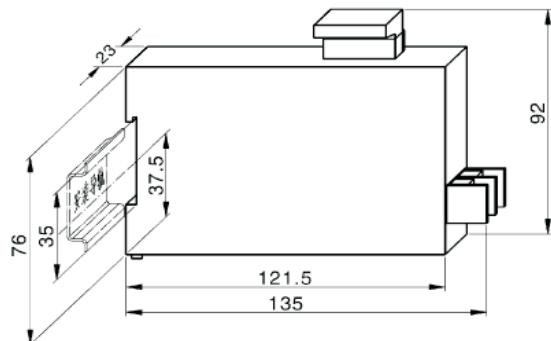
### ■技术参数 Technical parameters

输入标称值 Input nominal value	电流Current :1Aac ,5Aac;电压Voltage:100Vac,150Vac,300Vac,600Vac
输入过载 Input overload	持续2倍, 瞬时电流10倍/5秒; 瞬时电压2倍/30秒 Continual 2times,instantaneous current 10times/5Sec.;instantaneous voltage 2
输入负载 Input overload	电流互感器: ≤0.2VA, 电压互感器: ≤0.1VA Current transformer(CT)≤0.2VA,Voltage transformer(PT)≤0.1VA
精度 Accuracy	≤±0.5%R.O.
响应时间 Response time	<400mSec.
输出电压 Output voltage	0~10Vdc,1~5Vdc,0~5Vdc,and special
输出电流 Output current	4~20mAdc,0~20mAdc,0~10mAdc,and special
输出波纹 Output ripple	<0.5%R.O.
输出负载 Output overload	电流输出时<750Ω,电压输出时>1000Ω Output current <750Ω,Output voltage>1000Ω
输出满度校调 Span adjustment	≤±20% of R.O.
输出零点校调 Zero adjustment	≤±20% of R.O.
工作电源 Power supply	AC220V±10%、AC110V、DC220V、DC110V、DC24V±20%
电源功耗 Consumption	直流供电<3W,交流供电<4VA DC Power <3W,AC Power <4VA
外壳材料 Case material	ABS
隔离 Isolation	输入/输出/电源/外壳 互相隔离 Between input/output/power/case
耐压强度 Isolation voltage	AC2KVrms/min
绝缘阻抗 Insulation resistance	>100MΩ,DC500V
工作环境温湿度 Operating temperature humidity	— 10℃~55 ℃ , <80%相对湿度 (无冷凝状态) — 10℃~55 ℃ , <80%Relative humidity(non-condensing)
储存环境温湿度 Storage temperature humidity	— 20℃~70 ℃ , <70%相对湿度 (无冷凝状态) — 20℃~70 ℃ , <70%Relative humidity(non-condensing)
外型尺寸 Case dimension	135 mm(长) ×23mm (宽) ×92mm (高) 135 mm(Length) ×23mm (Width ) ×92mm (Height)
安装方式 Mounting	标准导轨35mm DIN rail 35mm
重量 Weight	<150克 <150g

电量变送器

Power Transducers

■ 外型尺寸 Dimension



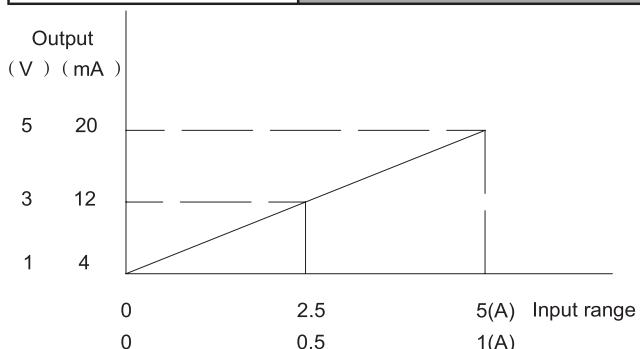
■ 选型代码 Model Code

企业代码	功能代码	接线方式			输入代码	输出代码	工作电源	
Company code	Function code	Wiring			I nput code	Output code	A ux.power	
L	ATH	电流	Current	12	单相二线	Single phase	A2	AC220V
	VTH	电压	Voltage				A1	AC110V
							A10	DC220V
							V1	DC110V
							V11	DC24V
							V12	Special
							V2	
							V3	
							V5	
							Y	

■ 订货范例 Order example

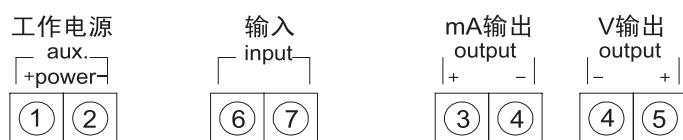
型号 Model : LATH12A5A4A2  
 输入 Input : 1P2W, 0~5Aac, 50Hz  
 输出 Output : 4~20mA  
 工作电源 Aux.power : AC220V

■ 输入、输出曲线图 Input 、Output curve



■ 接线图 Connection Diagram

单相电流/电压变送器  
Single phase Current/Voltage Transducer



## ■用途 Usage

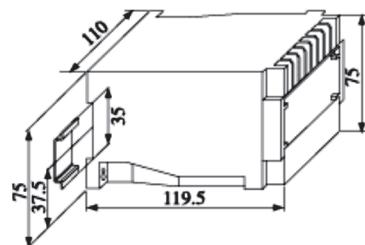
LA33/LV33型三相电流/电压变送器是一种将电网中的电流、电压参数，经隔离变成线性的三路直流模拟信号的装置。产品符合国家标准GB/T13850-1998。

LA33/LV33 three-phase current/voltage transducer is a device which can isolate and transmit electric parameters,such as current ,voltage,into linear 3-channel DC analog signal .It meet the requirements of National standard GB/T13850-1998.

## ■技术参数 Technical parameters

输入标称值 Input nominal value	电流Current :1Aac ,5Aac;电压Voltage:100Vac,150Vac,300Vac,600Vac
输入过载 Input overload	持续2倍, 瞬时电流10倍/5秒; 瞬时电压2倍/30秒 Continual 2times,instantaneous current 10times/5Sec.;instantaneous voltage 2 times/30Sec.
输入负载 Input overload	电流互感器: ≤0.2VA, 电压互感器: ≤0.1VA Current transformer(CT)≤0.2VA,Voltage transformer(PT)≤0.1VA
精度 Accuracy	≤±0.2%R.O.
响应时间 Response time	<400mSec.
输出电压 Output voltage	三路 3-channel 0~10Vdc,1~5Vdc,0~5Vdc,and special
输出电流 Output current	三路 3-channel 4~20mAdc,0~20mAdc,0~10mAdc,and special
输出波纹 Output ripple	<0.5%R.O.
输出负载 Output overload	电流输出时<750Ω,电压输出时>1000Ω Output current <750Ω,Output voltage>1000Ω
输出满度校调 Span adjustment	≤±20% of R.O.
输出零点校调 Zero adjustment	≤±20% of R.O.
工作电源 Power supply	AC220V±10%、AC110V、DC220V、DC110V、DC24V±20%
电源功耗 Consumption	直流供电<3W,交流供电<4VA DC Power <3W,AC Power <4VA
外壳材料 Case material	ABS
隔离 Isolation	输入/输出/电源/外壳 互相隔离 Between input/output/power/case
耐压强度 Insulation voltage	AC4KVrms/min
绝缘阻抗 Insulation resistance	>100MΩ,DC500V
工作环境温湿度 Operating temperature humidity	— 10℃~55 ℃ , <80%相对湿度 (无冷凝状态) — 10℃~55 ℃ , <80%Relative humidity(non-condensing)
储存环境温湿度 Storage temperature humidity	— 20℃~70 ℃ , <70%相对湿度 (无冷凝状态) — 20℃~70 ℃ , <70%Relative humidity(non-condensing)
外型尺寸 Case dimension	119.5 mm(长) ×110mm (宽) ×75mm (高) 119.5 mm(Length) ×110mm (Width) ×75mm (Height)
安装方式 Mounting	标准导轨35mm,或螺钉固定 DIN rail 35mm,or fix to cubicle with bolt
重量 Weight	<500克 <500g

■ 外型尺寸 Dimension



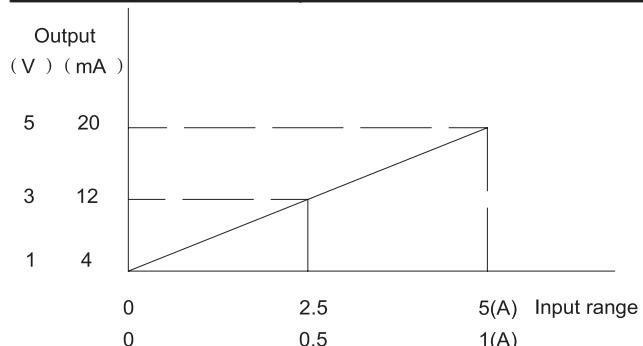
■ 选型代码 Model Code

企业代码	功能代码	接线方式	输入代码	输出代码	工作电源
Company code	Function code	Wiring	Input code	Output code	Aux.power
L	A 电流 Current	33 三相三线 3phase 3wire	A5 0~5A	A4 4~20mA	A2 AC220V
	V 电压 Voltage	34 三相四线 3phase 4wire	A1 0~1A A10 0~10A V1 0~100V V11 0~110V V12 0~120V V2 0~220V V3 0~300V V5 0~5V V15 1~5V V0 0~1V Y Special	A2 0~20mA V1 0~10V V5 0~5V V15 1~5V V0 0~1V Y Special	A1 AC110V D2 DC220V D1 DC110V D DC24V Y Special

■ 订货范例 Order example

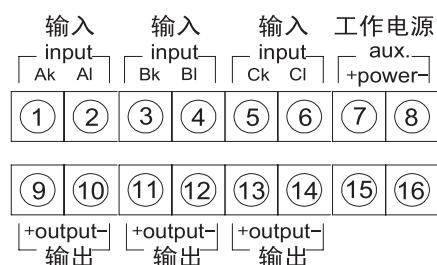
型号 Model : LA33A1A4A2  
输入 Input : 3P3W, 0~1Aac, 50Hz  
输出 Output : 4~20mAdc  
工作电源 Aux.power : AC220V

■ 输入、输出曲线图 Input 、 Output curve

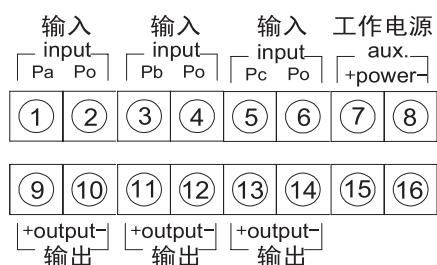


■ 接线图 Connection Diagram

三相电流变送器  
Three phase Current Transducer



三相电压变送器  
Three phase Voltage Transducer



## ■用途 Usage

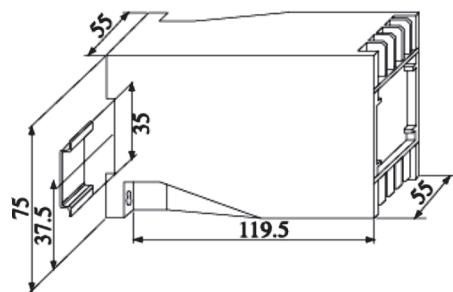
LF型频率变送器是一种将电网中的频率参数，经隔离变成线性的直流模拟信号的装置。产品符合国家标准GB/T13850-1998。

LF frequency transducer is a device which can isolate and transmit electric parameters,such as frequency,into linear DC analog signal .It meet the requirements of National standard GB/T13850-1998.

## ■技术参数 Technical parameters

输入标称值 Input nominal value	频率Frequency :45~55Hz,55~65Hz,45~65Hz,0~65Hz,0~100Hz ; 电压Voltage:100Vac,150Vac,300Vac,600Vac
输入过载 Input overload	持续2倍, 瞬时电流10倍/5秒; 瞬时电压2倍/30秒 Continual 2times,instantaneous current 10times/5Sec.;instantaneous voltage 2
输入负载 Input overload	电流互感器: ≤0.2VA, 电压互感器: ≤0.1VA Current transformer(CT)≤0.2VA,Voltage transformer(PT)≤0.1VA
精度 Accuracy	≤±0.1%R.O.
响应时间 Response time	<400mSec.
输出电压 Output voltage	0~10Vdc,1~5Vdc,0~5Vdc,and special
输出电流 Output current	4~20mAdc,0~20mAdc,0~10mAdc,and special
输出波纹 Output ripple	<0.5%R.O.
输出负载 Output overload	电流输出时<750Ω,电压输出时>1000Ω Output current <750Ω,Output voltage>1000Ω
输出满度校调 Span adjustment	≤±20% of R.O.
输出零点校调 Zero adjustment	≤±20% of R.O.
工作电源 Power supply	AC220V±10%、AC110V、DC220V、DC110V、DC24V±20%
电源功耗 Consumption	直流供电<3W,交流供电<4VA DC Power <3W,AC Power <4VA
外壳材料 Case material	ABS
隔离 Isolation	输入/输出/电源/外壳 互相隔离 Between input/output/power/case
耐压强度 Insulation voltage	AC4KVrms/min
绝缘阻抗 Insulation resistance	>100MΩ,DC500V
工作环境温湿度 Operating temperature humidity	— 10℃~55 ℃ , <80% 相对湿度 (无冷凝状态) — 10℃~55 ℃ , <80% Relative humidity(non-condensing)
储存环境温湿度 Storage temperature humidity	— 20℃~70 ℃ , <70% 相对湿度 (无冷凝状态) — 20℃~70 ℃ , <70% Relative humidity(non-condensing)
外型尺寸 Case dimension	119.5 mm(长) × 55mm (宽) × 75mm (高) 119.5 mm(Length) × 55mm (Width) × 75mm (Height)
安装方式 Mounting	标准导轨35mm,或螺钉固定 DIN rail 35mm,or fix to cubicle with bolt
重量 Weight	<200克 <200g

■ 外型尺寸 Dimension



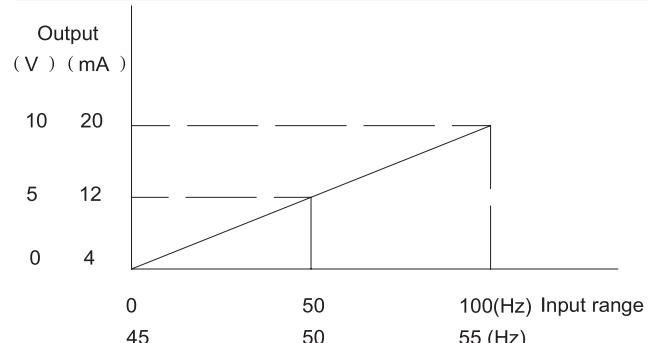
■ 选型代码 Model Code

企业代码 Company code	功能代码 Function code	输入频率/电压范围代码 Frequency		输出代码 Output code		工作电源 Aux.power
L	F	频率	H1 45~55Hz	V1 0~100V	A4 4~20mA	A2 AC220V
		Frequency	H2 55~65Hz	V11 0~110V	A2 0~20mA	A1 AC110V
			H3 45~65Hz	V12 0~120V	V1 0~10V	D2 DC220V
			H4 49~51Hz	V22 0~220V	V5 0~5V	D1 DC110V
			HA 0~50Hz	V38 0~380V	V15 1~5V	D DC24V
			HB 0~65Hz	V5 0~500V	V0 0~1V	Y Special
			HC 0~100Hz	Y Special	Y Special	
			Y Special			

■ 订货范例 Order example

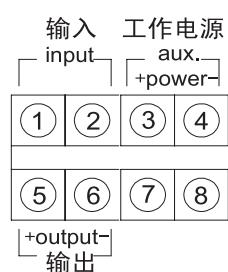
型号 Model : LFH1V1A4A2  
输入 Input : 45~55Hz, 100Vac  
输出 Output : 4~20mA  
工作电源 Aux.power : AC220V

■ 输入、输出曲线图 Input 、Output curve



■ 接线图 Connection Diagram

频率变送器  
Frequency Transducer



## ■用途 Usage

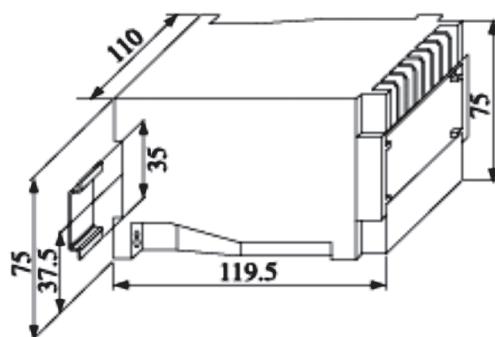
LPF型功率因数变送器是一种将电网中的功率因数参数，经隔离变送成线性的直流模拟信号的装置。产品符合国家标准GB/T13850-1998。

LW/LQ Power factor transducer is a device which can isolate and transmit electric parameters, such as power factor, into linear DC analog signal. It meet the requirements of National standard GB/T13850-1998.

## ■技术参数 Technical parameters

输入标称值 Input nominal value	电流 Current :1Aac ,5Aac; 电压 Voltage:100Vac,150Vac,300Vac,600Vac
输入过载 Input overload	持续2倍, 瞬时电流10倍/5秒; 瞬时电压2倍/30秒 Continual 2times,instantaneous current 10times/5Sec.;instantaneous voltage 2 times/30Sec.
输入负载 Input overload	电流互感器: ≤0.2VA, 电压互感器: ≤0.1VA Current transformer(CT)≤0.2VA, Voltage transformer(PT)≤0.1VA
精度 Accuracy	≤±0.2%R.O.
响应时间 Response time	<400mSec.
输出电压 Output voltage	0~10Vdc,1~5Vdc,0~5Vdc,and special
输出电流 Output current	4~20mAdc,0~20mAdc,0~10mAdc,and special
输出波纹 Output ripple	<0.5%R.O.
输出负载 Output overload	电流输出时<750Ω,电压输出时>1000Ω Output current <750Ω,Output voltage>1000Ω
输出满度校调 Span adjustment	≤±20% of R.O.
输出零点校调 Zero adjustment	≤±20% of R.O.
工作电源 Power supply	AC220V±10%、AC110V、DC220V、DC110V、DC24V±20%
电源功耗 Consumption	直流供电<3W,交流供电<4VA DC Power <3W,AC Power <4VA
外壳材料 Case material	ABS
隔离 Isolation	输入/输出/电源/外壳 互相隔离 Between input/output/power/case
耐压强度 Insulation voltage	AC4KVrms/min
绝缘阻抗 Insulation resistance	>100MΩ,DC500V
工作环境温湿度 Operating temperature humidity	— 10℃~55 ℃ , <80%相对湿度 (无冷凝状态) — 10℃~55 ℃ , <80%Relative humidity(non-condensing)
储存环境温湿度 Storage temperature humidity	— 20℃~70 ℃ , <70%相对湿度 (无冷凝状态) — 20℃~70 ℃ , <70%Relative humidity(non-condensing)
外型尺寸 Case dimension	119.5 mm(长) ×110mm (宽) ×75mm (高) 119.5 mm(Length) ×110mm (Width) ×75mm (Height)
安装方式 Mounting	标准导轨35mm,或螺钉固定 DIN rail 35mm,or fix to cubicle with bolt
重量 Weight	<500克 <500g

■ 外型尺寸 Dimension



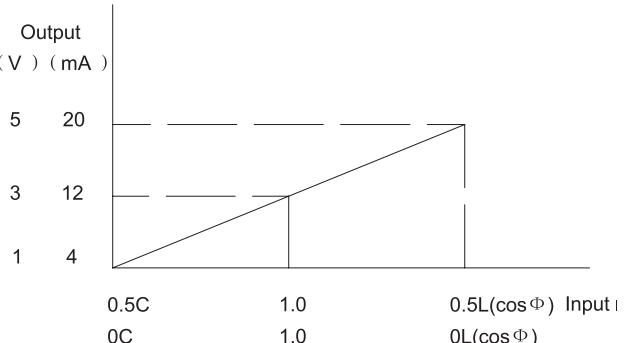
■ 选型代码 Model Code

企业代码	功能代码	接线方式		输入代码		输出代码		功率因数值	工作电源
Company code	Function code	Wiring		Input code		Output code		Power factor	Aux.power
L	PF	功率因数	12 单相二线 1P2W	A5 0~5A	A1 0~1A	A4 4~20mA	D1	A2 AC220V	
		Power factor	33 三相三线 3P3W	A1 0~1A		A2 0~20mA	0.5C~1~0.5L	A1 AC110V	
			34 三相四线 3P4W	A10 0~10A		A1 0~10mA	D2	DC220V	
				V1 0~100V	A0 4~12~20mA	0C~1~0L	D1	DC110V	
				V11 0~110V	V0 0~±10V	Y	D	DC24V	
				V12 0~120V	V1 0~10V	Special	Y	Special	
				V22 0~220	V5 0~5V				
				V38 0~380V	Y Special				
				Y Special					

■ 订货范例 Order example

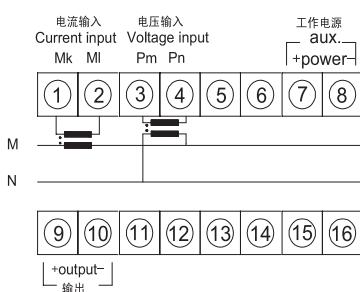
型号 Model : LPF33A5V1A0D1A2  
 输入 Input : 3P3W, 0~5Aac, 0~100Vac, 50Hz  
 输出 Output : 4~12~20mAdc  
 功率因数值 Power factor : 0.5C~1~0.5L  
 工作电源 Aux.power : AC220V

■ 输入/输出曲线图 Input、Output curve

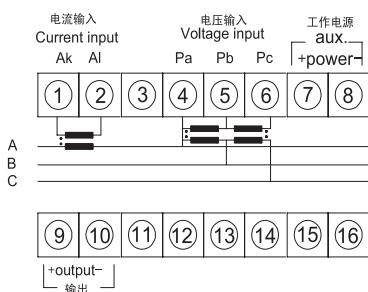


■ 接线图 Connection Diagram

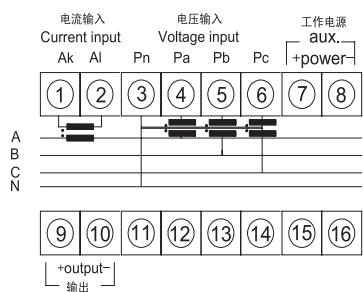
功率因数变送器-单相二线  
Power factor Transducer-single phase



功率因数变送器-三相三线  
Power factor Transducer-3- phase 3-wire



功率因数变送器-三相四线  
Power factor Transducer-3- phase 4-wire



## LW/LQ型 有功功率/无功功率变送器

## LW/LQ Active power(WATT) / reactive power(VAR) transducer

## ■用途 Usage

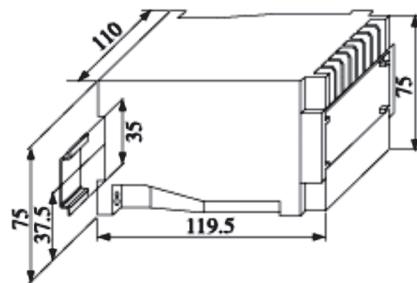
LW/LQ型有功功率/无功功率变送器是一种将电网中的有功功率、无功功率参数，经隔离变送成线性的直流模拟信号的装置。产品符合国家标准GB/T13850-1998。

LW/LQ Active power/reactive power transducer is a device which can isolate and transmit electric parameters,such as active power,reactive power,into linear DC analog signal .It meet the requirements of National standard GB/T13850-1998.

## ■技术参数 Technical parameters

输入标称值 Input nominal value	电流Current :1Aac ,5Aac;电压Voltage:100Vac,150Vac,300Vac,600Vac
输入过载 Input overload	持续2倍, 瞬时电流10倍/5秒; 瞬时电压2倍/30秒 Continual 2times,instantaneous current 10times/5Sec.;instantaneous voltage 2
输入负载 Input overload	电流互感器: ≤0.2VA, 电压互感器: ≤0.1VA Current transformer(CT)≤0.2VA,Voltage transformer(PT)≤0.1VA
精度 Accuracy	≤±0.2%R.O.
响应时间 Response time	<400mSec.
输出电压 Output voltage	0~10Vdc,1~5Vdc,0~5Vdc,and special
输出电流 Output current	4~20mAdc,0~20mAdc,0~10mAdc,and special
输出波纹 Output ripple	<0.5%R.O.
输出负载 Output overload	电流输出时<750Ω,电压输出时>1000Ω Output current <750Ω,Output voltage>1000Ω
输出满度校调 Span adjustment	≤±20% of R.O.
输出零点校调 Zero adjustment	≤±20% of R.O.
工作电源 Power supply	AC220V±10%、AC110V、DC220V、DC110V、DC24V±20%
电源功耗 Consumption	直流供电<3W,交流供电<4VA DC Power <3W,AC Power <4VA
外壳材料 Case material	ABS
隔离 Isolation	输入/输出/电源/外壳 互相隔离 Between input/output/power/case
耐压强度 Isolation voltage	AC4KVrms/min
绝缘阻抗 Insulation resistance	>100MΩ,DC500V
工作环境温湿度 Operating temperature humidity	— 10℃~55 ℃ , <80%相对湿度 (无冷凝状态) — 10℃~55 ℃ , <80%Relative humidity(non-condensing)
储存环境温湿度 Storage temperature humidity	— 20℃~70 ℃ , <70%相对湿度 (无冷凝状态) — 20℃~70 ℃ , <70%Relative humidity(non-condensing)
外型尺寸 Case dimension	119.5 mm(长) ×110mm (宽) ×75mm (高) 119.5 mm(Length) ×110mm (Width) ×75mm (Height)
安装方式 Mounting	标准导轨35mm,或螺钉固定 DIN rail 35mm,or fix to cubicle with bolt
重量 Weight	<500克 <500g

■ 外型尺寸 Dimension



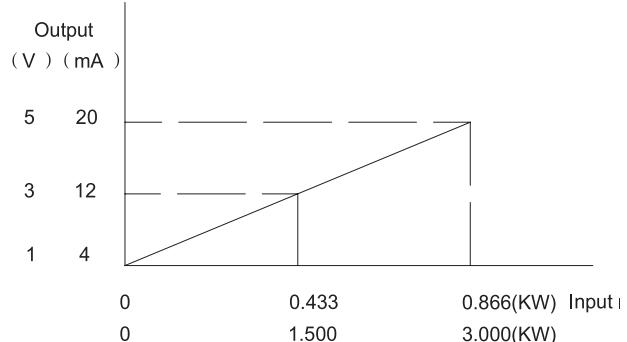
■ 选型代码 Model Code

企业代码 Company code	功能代码 Function code		接线方式 Wiring		输入代码 Input code		输出代码 Output code		基准功率数 Basic Watt	工作电源 Aux.power	
L	W	有功 Watt	12	单相二线	1P2W	A5	0~5A	A4	4~20mA	W6 0.866KW	A2 AC220V
	Q	无功 Var	33	三相三线	3P3W	A1	0~1A	A2	0~20mA	W1 1.000KW	A1 AC110V
	WQ	有功/无功组合	34	三相四线	3P4W	A10	0~10A	A1	0~10mA	W2 2.000KW	D2 DC220V
		Watt/Var				V1	0~100V	V1	0~10V	W3 3.000KW	D1 DC110V
	WA	有功/电流组合				V11	0~110V	V5	0~5V	Y Special	D DC24V
		Watt/Current				V12	0~120V	V15	1~5V		
						V22	0~220	V0	0~1V		
						V38	0~380V	Y	Special		
						Y	Special				

■ 订货范例 Order example

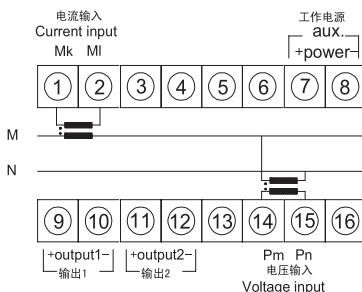
型号 Model : LW33A5V1A4W6A2  
 输入 Input : 3P3W, 0~5Aac, 0~100Vac, 50Hz  
 输出 Output : 4~20mAdc  
 功率基准数 Basic Watt : 0.866KW  
 工作电源 Aux.power : AC220V

■ 输入、输出曲线图 Input 、Output curve

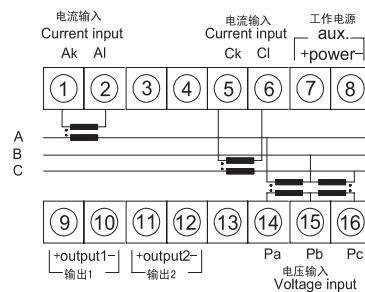


■ 接线图 Connection Diagram

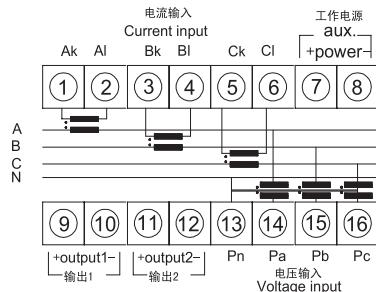
有功, 无功, 有功无功组合变送器-单相二线  
Watt,Var,Watt/Var Transducer-single phase



有功, 无功, 有功无功组合变送器-三相三线  
Watt,Var,Watt/Var Transducer-3- phase 3-wire



有功, 无功, 有功无功组合变送器-三相四线  
Watt,Var,Watt/Var Transducer-3- phase 4-wire



LWWH / LQQH 型 有功功率、有功电能组合变送器 / 无功功率、无功电能组合变送器

LWWH / LQQH Active power(WATT,WATT-Hour)/reactive power(VAR,VAR-Hour) transducer

■用途 Usage

LWWH/LQQH型组合变送器是一种将电网中的有功功率、无功功率经隔离变送成线性的直流模拟信号；将有功电能，无功电能参数以光耦电极开路或断电器接点形式脉冲输出，以适应不同的RTU和电能记录装置，输出引线为四根线，双向数字输出正负两个方向的电能量。产品符合国家标准GB/T13850-1998。

LWWH/LQQH transducer is a device which can isolate and transmit electric parameters,such as active power,reactive power,into linear DC analog signal ;such as watt-hour ,var-hour,into pulse by Voltage, Open Collect and Relay Contact.Outputs leads to four wire, plus or minus two digital output two-way direction of electric energy.It meet the requirements of National standard GB/T13850-1998.

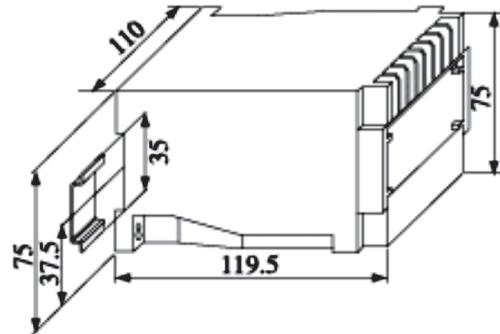
■技术参数 Technical parameters

输入标称值 Input nominal value	电流Current :1Aac ,5Aac;电压Voltage:100Vac,150Vac,300Vac,600Vac
输入过载 Input overload	持续2倍, 瞬时电流10倍/5秒; 瞬时电压2倍/30秒 Continual 2times,instantaneous current 10times/5Sec.;instantaneous voltage 2
输入负载 Input overload	电流互感器: ≤0.2VA, 电压互感器: ≤0.1VA Current transformer(CT)≤0.2VA,Voltage transformer(PT)≤0.1VA
精度 Accuracy	≤±0.2%R.O.
响应时间 Response time	<400mSec.
输出电流电压 Output current voltage	4~20mAdc,0~20mAdc,0~10mAdc, 0~10Vdc,1~5Vdc,0~5Vdc,and special
输出脉冲 Output pulse	电压脉冲, 开集极, 继电器连接 10pulse/kwh/100pulse/kwh等等 Voltage pulse Open collect ,Relay contact 10pulse/kwh/100pulse/kwh and special
输出波纹 Output ripple	<0.5%R.O.
输出负载 Output overload	电流输出时<750Ω,电压输出时>1000Ω Output current <750Ω,Output voltage>1000Ω
输出满度校调 Span adjustment	≤±20% of R.O.
输出零点校调 Zero adjustment	≤±20% of R.O.
工作电源 Power supply	AC220V±10%、AC110V、DC220V、DC110V、DC24V±20%
电源功耗 Consumption	直流供电<3W,交流供电<4VA DC Power <3W,AC Power <4VA
外壳材料 Case material	ABS
隔离 Isolation	输入/输出/电源/外壳 互相隔离 Between input/output/power/case
耐压强度 Insulation voltage	AC4KVrms/min
绝缘阻抗 Insulation resistance	>100MΩ,DC500V
工作环境温湿度 Operating temperature humidity	— 10℃~55 ℃ , <80%相对湿度 (无冷凝状态) — 10℃~55 ℃ , <80%Relative humidity(non-condensing)
储存环境温湿度 Storage temperature humidity	— 20℃~70 ℃ , <70%相对湿度 (无冷凝状态) — 20℃~70 ℃ , <70%Relative humidity(non-condensing)
外型尺寸 Case dimension	119.5 mm(长) ×110mm (宽) ×75mm (高) 119.5 mm(Length) ×110mm (Width) ×75mm (Height)
安装方式 Mounting	标准导轨35mm,或螺钉固定 DIN rail 35mm,or fix to cubicle with bolt
重量 Weight	<500克 <500g

电量变送器

Power Transducers

#### ■ 外型尺寸 Dimension



#### ■ 选型代码 Model Code

企业代码	功能代码	接线方式		输入代码		输出1代码		输出2代码		工作电源	
Company code	Function code	Wiring		Input code		Output1 code		Output2 code		Aux.power	
L	WWH	有功/电能组合	12 单相二线	1P2W	A5 0~5A	A4 4~20mA	P1 10p/kwh(kvar)	A2 AC220V	P2 100p/kwh(kvar)	A1 AC110V	
		Watt/Watt-hr	33 三相三线	3P3W	A1 0~1A		P3 1000p/kwh(kvar)	D2 DC220V			
		无功/电能组合	34 三相四线	3P4W	A10 0~10A		P4 10000p/kwh(kvar)	D1 DC110V	Y Special	D DC24V	
	QQH	Var/Var-hr			V1 0~100V	V1 0~10V	P5 0~5V	Y Special			
		有功电能			V11 0~110V	V5 0~5V	P6 15V pulse	Y Special			
	WH	Watt-hr			V12 0~120V	V15 1~5V	P7 open collect				
		无功电能			V22 0~220	V0 0~1V	C relay contact				
	QH	Var-hr			V38 0~380V	N NO O/P1	R relay contact				
					Y Special	Y Special	Y Special				

#### ■ 订货范例 Order example

型号 Model : LWWH33A5V1A4P2RA2

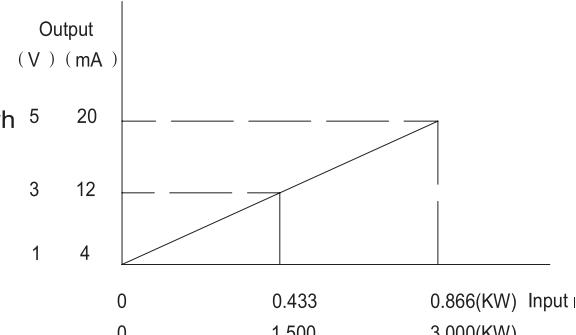
输入 Input : 3P3W, 0~5Aac, 0~100Vac, 50Hz

输出1 Output1 : 4~20mAdc

输出2 Output2 : 继电器输出Relay contact 100Pulse/Kwh

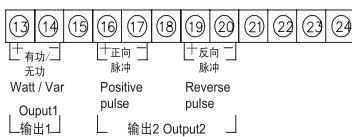
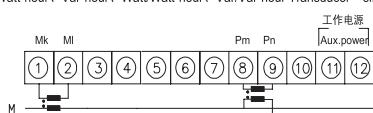
工作电源 Aux.power : AC220V

#### ■ 输入、输出曲线图 Input 、Output curve

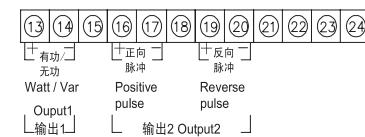
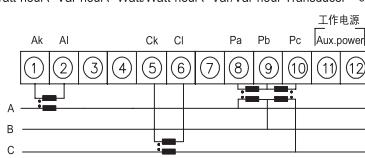


#### ■ 接线图 Connection Diagram

有功电能、无功电能、有功功率/电能组合、无功功率/电能组合—单相二线  
Watt-hour、Var-hour、Watt/Watt-hour、Var/Var-hour Transducer—single phase



有功电能、无功电能、有功功率/电能组合、无功功率/电能组合—三相三线  
Watt-hour、Var-hour、Watt/Watt-hour、Var/Var-hour Transducer—3-phase 3wire



有功电能、无功电能、有功功率/电能组合、无功功率/电能组合—三相四线  
Watt-hour、Var-hour、Watt/Watt-hour、Var/Var-hour Transducer—3-phase 4wire

