

E-CATALOGUE of Electronic Ballast



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PA2 Series Electronic Ballast

Technical Specifications

Mains Voltage: 110/240VAC

Mains Frequency: 50/60Hz

Power Factor: >0.98

Efficiency: >92%

Operating Frequency: 40-60KHz

Dimensions: 200*64*29mm



Installation Requirement

Wire Gauge: 0.5-1.0mm²

Max. cable length between ballasts and lamp: 5m

LED specification: $V_F=1.8-3.6V$ $I_F=5-20mA$

(When it's necessary, series current limiting resistor is needed.)

Mounting Restrictions

Disconnect Input Power Before Installing or Servicing.

Ballast Case Must Be Grounded.

Don't short any two wires of the four outputs.

Features

Starting: Preheat

Lamp status indication via DC signal output (Connected LED Requirement).

DC $5V \pm 5\%$ (5mA) : lamp on.

DC 0V: lamp fault or no lamp.

Applications

All areas of applications include UV lamps.

- ⇒ Air purification
- ⇒ Industrial water treatment
- ⇒ Kitchen purification

Type	Input Voltage (V)	Input Power (W)	Input Current (A)	Power Per Lamp (W)	Lamp Current (A)	Weight (kg)
PA2-425-2/40U	99-264	47-91	0.84A@110V 0.38A@240V	1*48-79 2*21-41	0.39-0.43	0.42
PA2-800-2/75U	99-264	78-167	1.58A@110V 0.73A@240V	1*95-155 2*35-75	0.75-0.85	0.42

PA5 Series Electronic Ballast

Technical Specifications

Mains Frequency: 50/60Hz

Efficiency: >90%

Operating Frequency: 40-60KHz

Dimensions: 105*60*30mm



Lamp status indication via LED indicators

Green LED: lamp on

Red LED: lamp fault

Buzzer function: when the tube failure occurs buzzer will be intermittent sound.

Mounting Restrictions

Disconnect Input Power Before Installing or Servicing.

Don't short any two wires of the four outputs.

Features

Starting: Preheat

Applications

- ⇒ Air purification
- ⇒ Aquarium
- ⇒ Water treatment

Optional Parts

Type	Input Voltage (V)	Input Power (W)	Input Current (A)	Power Per Lamp (W)	Lamp Current (A)	Weight (kg)
PA5-425-40	198-264	45	0.36A@230V	21-41	0.39-0.43	0.44
PA5-425-40A	99-132	45	0.68A@120V	21-41	0.39-0.43	0.44
PA5-425-40U	99-264	12-48	0.44A@110V 0.20A@240V	10-41	0.39-0.43	0.54

PA6 Series Electronic Ballast

Technical Specifications

Mains Voltage: 110/240VAC

Mains Frequency: 50/60Hz

Power Factor: >0.98

Efficiency: >90%

Operating Frequency: 40-60KHz

Dimensions: 135*60*30mm



Installation Requirement

Wire Gauge: 0.5-1.0mm²

Max. cable length between ballasts and lamp: 5m

LED specification: $V_f=1.8-3.6V$ $I_f=5-20mA$

Mounting Restrictions

Disconnect Input Power Before Installing or Servicing.

Ballast Case Must Be Grounded.

Don't short any two wires of the four outputs.

Features

Starting: Preheat

Lamp status indication via DC signal output

DC $5V \pm 5\%$ (5mA) : lamp on.

DC 0V: lamp fault or no lamp.

Connect LED.

Applications

All areas of applications include UV lamps.

⇒ Air purification

⇒ Medical treatment

Type	Input Voltage (V)	Input Power (W)	Input Current (A)	Power Per Lamp (W)	Lamp Current (A)	Weight (kg)
PA6-425-2/18U	99-264	24-48	0.44A@110V 0.20A@240V	1*36-41 2*10-21	0.39-0.43	0.17
PA6-800-35U	99-264	41-56	0.52A@110V 0.24A@240V	35-48	0.75-0.85	0.17

PA7 Series Electronic Ballast

Technical Specifications

Mains Voltage: 230VAC

Mains Frequency: 50/60Hz

Power Factor: >0.9

Efficiency: >90%

Operating Frequency: 40-60KHz

Dimensions: 185*56*38mm



Installation Requirement

Wire Gauge: 0.5-1.0mm²

Max. cable length between ballasts and lamp: 5m

LED specification: $V_f=1.8-3.6V$ $I_f=5-20mA$

Mounting Restrictions

Disconnect Input Power Before Installing or Servicing.

Ballast Case Must Be Grounded.

Don't short any two wires of the four outputs.

Features

Starting: Preheat

Lamp status indication via DC signal output

DC $5V \pm 5\%$ (5mA) : lamp on.

DC 0V: lamp fault or no lamp.

Connect LED.

Applications

- ⇒ Air purification
- ⇒ Industrial water treatment
- ⇒ Kitchen purification

Type	Input Voltage (V)	Input Power (W)	Input Current (A)	Power Per Lamp (W)	Lamp Current (A)	Weight (kg)
PA7-425-75	198-264	62-90	0.43A@230V	37-79	0.39-0.43	0.27
PA7-800-95	198-264	62.5-108	0.51A@230V	35-95	0.75-0.85	0.27

PA7-U Series Electronic Ballast

Technical Specifications

Mains Voltage: 110/240VAC

Mains Frequency: 50/60Hz

Power Factor: >0.98

Efficiency: >90%

Operating Frequency: 40-60KHz

Dimensions: 185*56*38mm



Lamp status indication via LED indication

Green LED: lamp on

Red LED: lamp fault

Lamp status forwarding

Potential free relay contacts for lamp on/lamp fault.

Installation Requirement

Wire Gauge: 0.5-1.5mm²

Max. cable length between ballasts and lamp: 5m

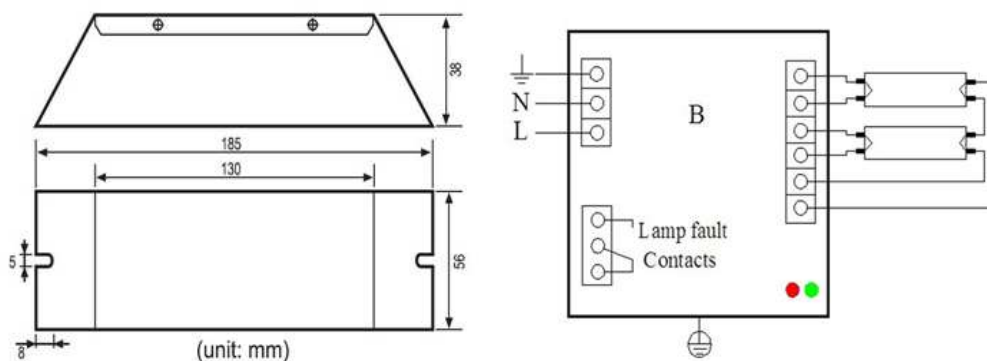
Relay contacts: potential free, load: 50...500mA at 24...230V AC;
50...500mA at 5...60V DC

Mounting Restrictions

Disconnect Input Power Before Installing or Servicing.

Ballast Case Must Be Grounded.

Don't short any two wires of the four outputs.



Features

Starting: Preheat

Add buzzer function

Buzzer function: the buzzer will sound when the lamp fault

UV lamp can be connected to external LED.

Applications

All areas of applications include UV lamps.

- ⇒ Air purification
- ⇒ Industrial water treatment
- ⇒ Kitchen purification

Type	Input Voltage (V)	Input Power (W)	Input Current (A)	Power Per Lamp (W)	Lamp Current (A)	Weight (kg)
PA7-425-75U	99-264	62-90	0.83A@110V 0.38A@240V	37-79	0.39-0.43	0.27
PA7-800-95U	99-264	62.5-108	1.0A@110V 0.46A@240V	35-95	0.75-0.85	0.27
PA7-1200-105U	99-264	49-119	1.10A@110V 0.50A@240V	42-105	1.10-1.30	0.27
PA7-1500-80U	99-264	85-91	0.84A@110V 0.38A@240V	75-80	1.40-1.60	0.27
PA7-1800-57U	99-264	67	0.62A@110V 0.28A@240V	57	1.70-1.90	0.27

PA8 Series Electronic Ballast

Technical Specifications

Mains Voltage: 110/240VAC

Mains Frequency: 50/60Hz

Power Factor: >0.98

Efficiency: >92%

Operating Frequency: 40-60KHz

Dimensions: 250*65*40mm



Lamp status indication via LED indication

Green LED: lamp on

Red LED: lamp fault

Lamp status forwarding

Potential free relay contacts for lamp on/lamp fault.

Installation Requirement

Wire Gauge: 0.5-1.5mm²

Max. cable length between ballasts and lamp: 5m

Relay contacts: potential free, load: 50...500mA at 24...230V AC;

50...500mA at 5...60V DC

DC5V \pm 5% 5mA: lamp on.

DC0V: lamp fault or no lamp. Connect LED.

DC5V \pm 10% Max. 50mA: lamp on.

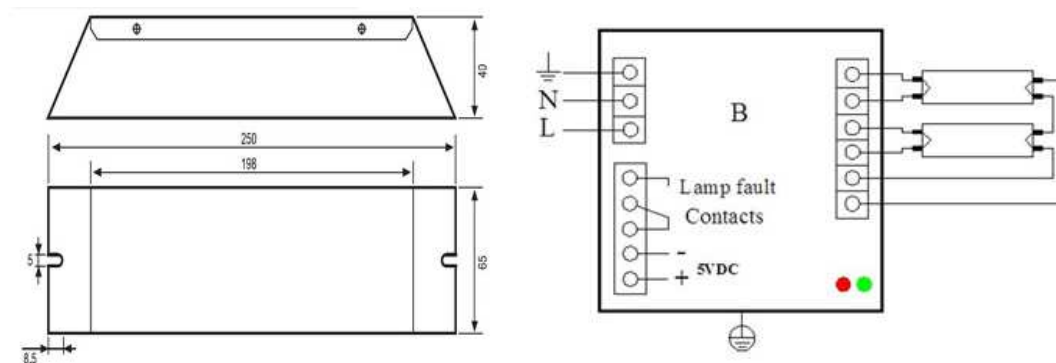
DCOV: lamp fault or no lamp. Connect Relay.

Mounting Restrictions

Disconnect Input Power Before Installing or Servicing.

Ballast Case Must Be Grounded.

Don't short any two wires of the four outputs.



Features

Starting: Preheat

Applications

All areas of applications include UV lamps.

- ⇒ Air purification
- ⇒ Industrial water treatment
- ⇒ Municipal water treatment

Type	Input Voltage (V)	Input Power (W)	Input Current (A)	Power Per Lamp (W)	Lamp Current (A)	Weight (kg)
PA8-800-155	99-264	168	1.53A@110V 0.70A@240V	55-155	0.75-0.85	0.53
PA8-1200-190	99-264	206	1.87A@110V 0.85A@240V	42-190	1.1-1.3	0.53
PA8-1500-150	99-264	164	1.50A@110V 0.68A@240V	57-150	1.4-1.6	0.53
PA8-1800-150	99-264	164	1.50A@110V 0.68A@240V	65-150	1.7-1.9	0.53
PA8-2100-200	99-264	217	1.98A@110V 0.90A@240V	200	2.0-2.2	0.53

PA9 Series Electronic Ballast

Technical Specifications

Mains Voltage: 230VAC

Mains Frequency: 50/60Hz

Power Factor: >0.98

Efficiency: >94%

Operating Frequency: 40-60KHz

Starting: Preheat

Dimensions: 250*95*45mm



Lamp status indication via LED indication

Green LED: lamp on

Red LED: lamp fault

Lamp status forwarding

Potential free relay contacts for lamp on/lamp fault.

Installation Requirement

Wire Gauge: 0.5-1.5mm²

Max. cable length between ballasts and lamp: 5m

Relay contacts: potential free, load: 50...500mA at 24...230V AC;
50...500mA at 5...60V DC

DC5V \pm 5% 5mA: lamp on.

DC0V: lamp fault or no lamp.

Mounting Restrictions

Disconnect Input Power Before Installing or Servicing.

Ballast Case Must Be Grounded.

Don't short any two wires of the four outputs.

Applications

All areas of applications include UV lamps.

- ⇒ Industrial water treatment
- ⇒ Municipal water treatment
- ⇒ Water injection for oilfield

Type	Input Voltage (V)	Input Power (W)	Input Current (A)	Power Per Lamp (W)	Lamp Current (A)
PA9-1800-240	198-264	256	1.12A@230V	57-240	1.7-1.9
PA9-2100-320	198-264	341	1.49A@230V	80-325	2.0-2.2

PA10 Series Electronic Ballast

Technical Specifications

Mains Voltage: 230VAC

Power Factor: >0.98

Efficiency: >94%

Operating Frequency: 40-60KHz

Starting: Preheat

Dimensions: 250*141*50mm



Lamp status indication via LED indication

Green LED: lamp on

Red LED: lamp fault

Lamp status forwarding

Potential free relay contacts for lamp on/lamp fault.

Installation Requirement

Wire Gauge: 1.0-1.5mm²

Max. cable length between ballasts and lamp: 5m

Relay contacts: potential free, load: 50...500mA at 24...230V AC;

50...500mA at 5...60V DC

DC5V \pm 5% 5mA: lamp on.

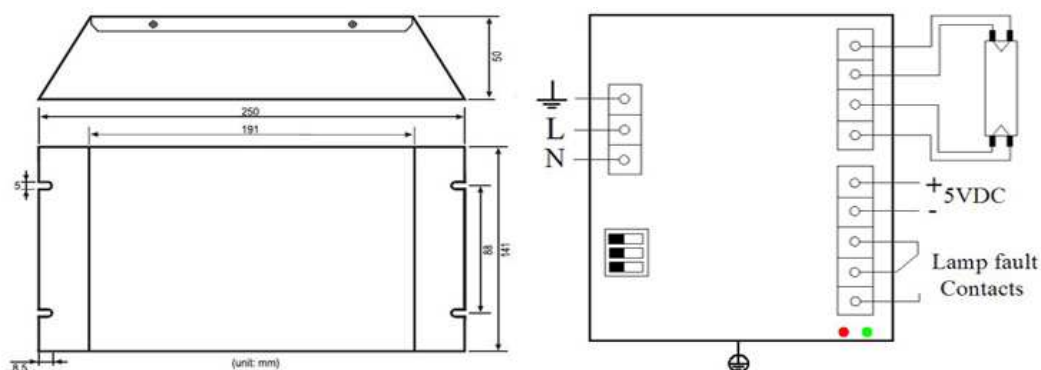
DC0V: lamp fault or no lamp.

Mounting Restrictions

Disconnect Input Power Before Installing or Servicing.

Ballast Case Must Be Grounded.

Don't short any two wires of the four outputs.



Features

Starting: Preheat

Applications

All areas of applications include UV lamps.

- ⇒ Industrial water treatment
- ⇒ Municipal water treatment
- ⇒ Water injection for oilfield
- ⇒

Type	Input Voltage (V)	Input Power (W)	Input Current (A)	Power Per Lamp (W)	Lamp Current (A)	Weight (kg)
PA10-5500-500	198-264	532	2.32A@230V	400-500	4.8-5.5	1.2
PA10-AL-800W	198-264	851	3.7A@230V	800W	7.0-8.0	1.2

PA10-AL Series Electronic Ballast

Technical Specifications

Mains Voltage: 230VAC

Mains Frequency: 50/60Hz

Power Factor: >0.98

Efficiency: >94%

Operating Frequency: 40-60KHz

Dimensions: 250*141*50mm



Lamp status indication via LED indication

Green LED: lamp on

Red LED: lamp fault

Lamp status forwarding

Potential free relay contacts for lamp on/lamp fault.

Installation Requirement

Wire Gauge: 1.0-1.5mm²

Max. cable length between ballasts and lamp: 5m

Relay contacts: potential free, load: 50...500mA at 24...230V AC;
50...500mA at 5...60V DC

Mounting Restrictions

Disconnect Input Power Before Installing or Servicing.

Ballast Case Must Be Grounded.

Don't short any two wires of the four outputs.

Features

Starting: Preheat

Applications

All areas of applications include UV lamps.

- ⇒ Industrial water treatment
- ⇒ Municipal water treatment
- ⇒ Water injection for oilfield

Type	Input Voltage (V)	Input Power (W)	Input Current (A)	Power Per Lamp (W)	Lamp Current (A)
PA10-AL-2/320	198-264	692	3.07A	2*240-320	1.8-2.2

PA11 Series Electronic Ballast

Technical Specifications

Mains Frequency: 50/60Hz

Efficiency: >90%

Operating Frequency: 40-70KHz

Input line length: 430mm

Output line length: 480mm

Signal line length: 480mm



Installation Requirement

Wire Gauge: 0.5-1.0mm²

LED specification: $V_f=1.8-3.6V$ $I_f=5-10mA$

Mounting Restrictions

Disconnect Input Power Before Installing or Servicing.

Ballast Case Must Be Grounded.

Don't short any two wires of the four outputs.

Features

Starting: Preheat

Lamp status indication via DC signal output.

DC5V 5mA: lamp on.

DV0V: lamp fault or no lamp.

Connect LED

Applications

All areas of applications include UV lamps.

- ⇒ Air purification
- ⇒ Aquarium
- ⇒ Industrial water treatment

Type	Input Voltage (V)	Input Power (W)	Input Current (A)	Power Per Lamp (W)	Lamp Current (A)	Weight (kg)
PA11-425-40	198-264	28-46	0.37A@230V	10-41	0.39-0.43	0.22
PA11-425-40A	99-132	28-46	0.70A@120V	10-41	0.39-0.43	0.22

PA11-2 Series Electronic Ballast

Technical Specifications

Mains Frequency: 50/60Hz

Efficiency: >90%

Operating Frequency: 40-60KHz

Dimensions: 165*38*29mm



Installation Requirement

Wire Gauge: 0.5-1.0mm²

LED specification: $V_f=1.8-3.6V$ $I_f=20-50mA$

Mounting Restrictions

Disconnect Input Power Before Installing or Servicing.

Ballast Case Must Be Grounded.

Don't short any two wires of the four outputs.

Features

Starting: Preheat

Lamp status indication via DC signal output.

DC5V 5mA: lamp on.

DV0V: lamp fault or no lamp.

Applications

All areas of applications include UV lamps.

- ⇒ Air purification
- ⇒ Aquarium
- ⇒ Industrial water treatment

Type	Input Voltage (V)	Input Power (W)	Input Current (A)	Power Per Lamp (W)	Lamp Current (A)	Weight (kg)
PA11-425-36	198-264	45	0.21A@230V	10-41	0.39-0.43	0.11
PA11-425-2/21U	99-264	46	0.20A@240V 0.42A@110V	10-41	0.39-0.43	0.15
PA11-800-55	198-264	60	0.28A@120V	10-41	0.75-0.85	0.13

PA12 Series Electronic Ballast

Technical Specifications

Mains Frequency: 50/60Hz

Power factor: >0.55

Efficiency: >80%

Operating Frequency: 40-60KHz

Starting: Preheat

Dimensions: 80*40*22mm



Lamp status indication via LED indication

Green LED: lamp on

Red LED: lamp fault

Installation Requirement

Wire Gauge: 0.5-1.0mm²

Max. cable length between ballasts and lamp: 5m

Mounting Restrictions

Disconnect Input Power Before Installing or Servicing.

Don't short any two wires of the four outputs.

Features

Starting: Preheat

Applications

All areas of applications include UV lamps.

- ⇒ Air purification
- ⇒ Aquarium
- ⇒ Domestic drinking water

Type	Input Voltage (V)	Input Power (W)	Input Current (A)	Power Per Lamp (W)	Lamp Current (A)
PA12-180-10	198-264	5-10	0.08A@230V	4-8	0.16-0.18
PA12-350-15	198-264	18.7	0.16A@230V	15	0.30-0.35
PA12-425-18	198-264	12-21	0.17A@230V	10-17	0.36-0.42
PA12-180-10A	99-132	5-10	0.15A@120V	4-8	0.16-0.18
PA12-350-15A	99-132	18.7	0.30A@120V	15	0.30-0.35
PA12-425-18A	99-132	12-21	0.31A@120V	10-17	0.36-0.42

PA21 Series Electronic Ballast

Technical specifications

Mains Voltage:230VAC

Mains Frequency:50/60Hz

Power Factor:>0.55

Efficiency:>90%

Operating Frequency:40-60kHz

Starting: Rapid

Dimensions:250*30*20mm



Installation requirement

Wire Gauge:0.5-1.0mm²

Mounting restrictions

Disconnect Input Power Before Installing or Servicing.

Ballast Case Must Be Grounded.

Don't short any two wires of the four outputs.

Type	Input Voltage(V)	Input Power(W)	Input Current(A)	Power Per Lamp(W)	Lamp Current(A)	Weight (kg)
PA21-425-90	198-264	90	0.7A@230V	41-79	0.39-0.43	0.14

PA51 Series Electronic Ballast

Technical specifications

Mains Voltage:110/240VAC

Power Factor:>0.98

Efficiency:>90%

Operating Frequency:40-60kHz

Starting: Preheat

Dimensions:204*70*45mm



Lamp status indication via LED indication

Green LED: Lamp on

Red LED: Lamp fault

Installation requirement

Wire Gauge:0.5-1.0mm²

Max. cable length between ballasts and lamp:5m

Mounting restrictions

Disconnect Input Power Before Installing or Servicing.

Don't short any two wires of the four outputs.

Applications

All areas of applications include UV lamps:

=>Domestic drinking waster

=>Industrial water treatment

Type	Input Voltage(V)	Input Power(W)	Input Current(A)	Power Per Lamp(W)	Lamp Current(A)
PA51-425-40L	99-264	45	0.41A@110V 0.19A@240V	10-41	0.39-0.43
PA51-425-75L	99-264	86	0.79A@110v 0.36A@240v	55-79	0.39-0.43
PA51-800-95L	99-264	103	0.94A@110V 0.43A@240V	55-95	0.75-0.85
PA51-800-2/55U	99-264	105-122	1.13A@110V 0.51A@240V	48-55	0.75-0.85
PA51-800-95U	99-264	70-111	1.03A@110V 0.47A@240V	60-95	0.75-.85
PA51-1200-105U	99-264	49-123	1.14A@110V 0.52A@240V	42-105	1.10-1.30

PB1 Series Electronic Ballast

Technical specifications

Mains Frequency: 50/60Hz

Power Factor:>0.55

Efficiency:>90%

Operating Frequency:40-70kHz

Starting: Instant

Dimensions:215*44*26mm

Input line length:430mm

Output line length:630mm

Signal line length:630mm



Installation requirement

Wire Gauge:0.5-1.0mm²

Max. cable length between ballasts and lamp:5m

LDE specification: $V_F=1.8-3.6V$ $I_F=20-50mA$

Mounting restrictions

Disconnect Input Power Before Installing or Servicing.

Ballast Case must Be Grounded.

Don't short any two wires of the four outputs.

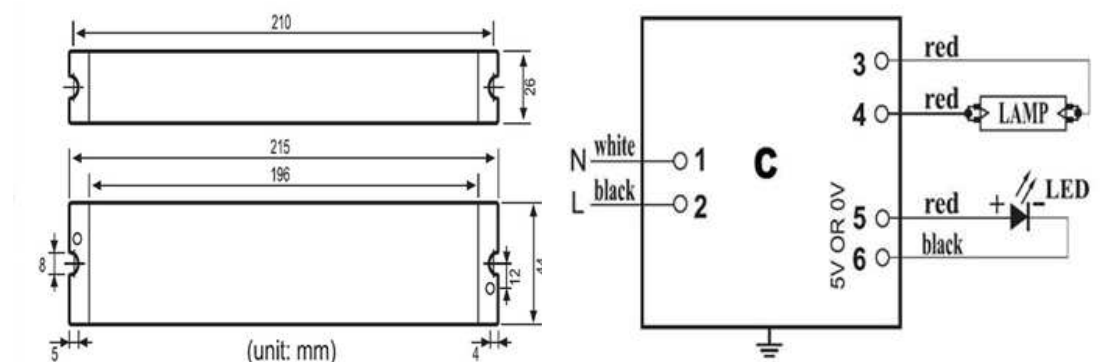
The yellow wire must be insulated when driving a lamp.

For applications with less than one

Switch-on cycle per day

(Other otherwise preheat start ballasts are recommended)

Lamp filament must be suitable for instant start operation, need confirm with lamp manufacturer.



Features

Lamp status indication via DC signal output.

DC3-6V 5mA:lamp on.

DC0-2V:lamp fault or no lamp.

Applications

All areas of applications include UV lamps:

=>Air purification

=>Aquarium

=>Industrial water treatment

=>Kitchen purification

Type	Input Voltage(V)	Input Power(W)	Input Current(A)	Power Per Lamp(W)	Lamp Current(A)	Weight (kg)
PB1-425-90	198-264	87	0.69A@230V	21-79	0.39-0.43	0.35
PB1-425-2/40	198-264	87	0.69A@230V	21-40	0.39-0.43	0.35
PB1-800-100	198-264	105	0.83A@230V	35-95	0.75-0.85	0.35
PB1-425-90A	99-132	87	1.3A@120V	21-79	0.39-0.43	0.35
PB1-425-2/40A	99-132	87	1.3A@120V	21-40	0.39-0.43	0.35
PB1-800-100A	99-132	105	1.6A@120V	35-95	0.75-0.85	0.35

PB8 Series Electronic Ballast

Technical specifications

Mains Voltage:110/240VAC

Mains Frequency:50/60Hz

Power Factor:>0.98

Efficiency:>92%

Operating Frequency:40-60kHz

Dimensions:250*65*45mm



Lamp status indication via LED indication

Green LED: Lamp on

Red LED: Lamp fault

Lamp status forwarding

Potential free relay contacts for lamp on/lamp fault.

Installation requirement

Wire Gauge:0.5-1.0mm²

Max. cable length between ballasts and lamp:5m

Relay contacts: potential free, load:

50...500mA at 24...230VAC;50...500mA at 5...60VDC

Mounting restrictions

Disconnect Input Power Before Installing or Servicing.

Ballast Case must Be Grounded.

Don't short any two wires of the four outputs.

For applications with less than one

Switch-on cycle per day (Other otherwise preheat start ballasts are recommended)

Lamp filament must be suitable for instant start operation, need confirm with lamp manufacturer.

Features: Instant Starting

Applications

All areas of applications include UV lamps

=>Air purification

=>Industrial water treatment

=>Kitchen purification

Type	Input Voltage(V)	Input Power(W)	Input Current(A)	Power Per Lamp(W)	Lamp Current(A)
PB8-425-2/75	99-264	93-175	0.77A@230V	21-79	0.39-0.43

PB9 Series Electronic Ballast

Technical specifications

Mains voltage:230VAC

Mains Frequency: 50/60Hz

Power Factor:>0.98

Efficiency:>94%

Operating Frequency:40-60kHz

Starting: Instant

Dimensions:250*108*57mm



Lamp status indication via LED indication

Green LED: Lamp on

Red LED: Lamp fault

Lamp status forwarding

Potential free relay contacts for lamp on/lamp fault..

Installation requirement

Wire Gauge:0.5-1.0mm²

Max. cable length between ballasts and lamp:5m

Relay contacts: potential free,

Load:50...500mA at 24...230V AC; 50...500mA at 5...60V DC

Mounting restrictions

Disconnect Input Power Before Installing or Servicing.

Ballast Case must Be Grounded.

Don't short any two wires of the four outputs.

Applications

All areas of applications include UV lamps:

=>Air purification

=>Municipal water treatment

=>Industrial water treatment

=>Water injection for oilfield

Type	Input Voltage(V)	Input Power(W)	Input Current(A)	Power Per Lamp(W)	Lamp Current(A)
PB9-800-2/155	198-305	330	1.44A@230V	2*55-155	0.75-0.85
PB9-1200-2/190	198-305	405	1.76A@230V	2*42-190	1.1-1.3
PB9-1500-2/150	198-305	320	1.40A@230V	2*57-150	1.4-1.6
PB9-1800-2/150	198-305	320	1.40A@230V	2*65-150	1.7-1.9
PB9-2100-2/172	198-305	366	1.60A@230V	2*80-172	2.0-2.2

PB11 Series Electronic Ballast

Technical specifications

Mains Frequency: 50/60Hz

Power Factor:>0.55

Efficiency:>90%

Operating Frequency:40-70kHz

Dimensions:162*42*26mm

Input line length:430mm

Output line length:480mm

Signal line length:480mm



Installation requirement

Wire Gauge:0.5-1.0mm²

LDE specification: $V_F=1.8-3.6V$ $I_F=20-50mA$

Mounting restrictions

Disconnect Input Power Before Installing or Servicing.

Ballast Case must Be Grounded.

Don't short any two wires of the four outputs.

For applications with less than one

Switch-on cycle per day (other otherwise preheat start ballasts are recommended)

Lamp filament must be suitable for instant start operation, ask lamp manufacturer.

Features

Starting: Instant

Lamp status indication via DC signal output.

DC3-6V 5mA: lamp on. DC0-2V: lamp fault or no lamp.

Applications

All areas of applications include UV lamps:

=>Air purification

=>Aquarium

=>Industrial water treatment

Type	Input Voltage(V)	Input Power(W)	Input Current(A)	Power Per Lamp(W)	Lamp Current(A)
PB11-425-40	198-264	28-46	0.37A@230V	10-41	0.39-0.43
PB11-530-55	198-264	61	0.49A@230V	55	0.47-0.53
PB11-425-40A	99-132	28-46	0.70A@120V	10-41	0.39-0.43
PB11-530-55A	99-132	61	0.93A@120V	55	0.47-0.53

PB15 Series Electronic Ballast

Technical specifications

Efficiency:>70%

Operating Frequency:40-70kHz

Dimensions:85*43*27mm

Max. cable length between ballasts and lamp:1.5m



Installation requirement

Wire Gauge:0.5-1.0mm²

LDE specification: $V_F=1.8-3.6V$ $I_F=20-50mA$

Mounting restrictions

Disconnect Input Power Before Installing or Servicing.

Ballast Case must Be Grounded.

Don't short any two wires of the four outputs.

For applications with less than one

Switch-on cycle per day

(other otherwise preheat start ballasts are recommended)

Lamp filament must be suitable for instant start operation, ask lamp manufacturer.

Features

Starting: Instant

Lamp status indication via DC signal output.

DC3-6V 5mA:lamp on.

DC0-2V:lamp fault or no lamp.

Applications

All areas of applications include UV lamps:

=>Air purification

=>Aquarium

=>Domestic drinking water

Type	Input Voltage(V)	Input Power(W)	Input Current(A)	Power Per Lamp(W)	Lamp Current(A)
PB15-180-10D24	21.4-26.4	5.7-11.5	0.48A@240V	4-8	0.16-0.18
PB15-350-15D24	21.4-26.4	21.4	0.89A@240V	15	0.30-0.35
PB15-425-18D24	21.4-26.4	14.3-24.3	1.0A@240V	10-17	0.35-0.42
PB15-180-10D12	10.8-13.2	5.7-11.5	0.96A@120V	4-8	0.16-0.18
PB15-350-15D12	10.8-13.2	21.4	1.78A@120V	15	0.30-0.35
PB15-425-18D12	10.8-13.2	14.3-24.3	2.0A@120V	10-17	0.35-0.42

PC01 Series Electronic Ballast

Technical specifications

Mains voltage:230VAC

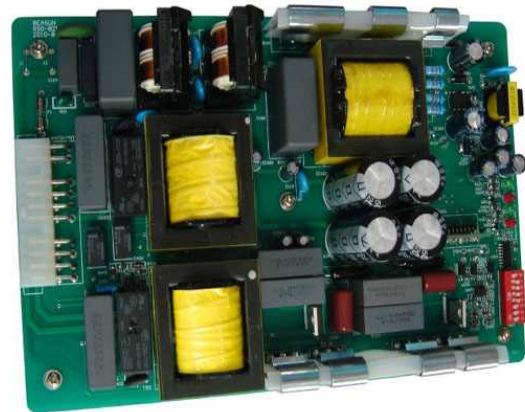
Mains Frequency: 50/60Hz

Power Factor:>0.98

Efficiency:>94%

Operating Frequency:28-80kHz

Dimensions:220*144*50mm



Lamp status indication via LED indication

Green LED: Lamp on

Red LED: Lamp fault

Lamp status forwarding

Potential free relay contacts for lamp on/lamp fault..

Installation requirement

Wire Gauge:0.5-1.5mm²

Max. cable length between ballasts and lamp:5m

Relay contacts: potential free,

Load:50...500mA at 24...230V AC; 50...500mA at 5...60V DC

Mounting restrictions

Disconnect Input Power Before Installing or Servicing.

Ballast Case must Be Grounded.

Don't short any two wires of the four outputs.

Features

Starting: Preheat

RS485 dimmable function:

The lamp power can be adjusted from 60% to 100%.

Applications

All areas of applications include UV lamps

=>Municipal water treatment

=>Industrial water treatment

=>Water injection for oilfield

More information, please refer to the manual

Type	Input Voltage(V)	Input Power(W)	Input Current(A)	Power Per Lamp(W)	Lamp Current(A)
PC01-AL-2/320	198-305	692	3.0A@230V	240-325	1.8-2.2

PC02 Series Electronic Ballast

Technical specifications

Mains voltage:230VAC

Mains Frequency: 50/60Hz

Power Factor:>0.98

Efficiency:>94%

Operating Frequency:28-80kHz

Dimensions:240*234*50mm



Lamp status indication via LED indication

Green LED: Lamp on

Red LED: Lamp fault

Installation requirement

Wire Gauge:1.5-2.5mm²

Max. cable length between ballasts and lamp:5m

Mounting restrictions

Disconnect Input Power Before Installing or Servicing.

Ballast Case must Be Grounded.

Don't short any two wires of the four outputs.

Features

Starting: Preheat

4~20mA dimmable function:

The lamp power can be adjusted from 60% to 100%.

Applications

All areas of applications include UV lamps

=>Municipal water treatment

=>Industrial water treatment

=>Water injection for oilfield

More information, please refer to the manual

Type	Input Voltage(V)	Input Power(W)	Input Current(A)	Power Per Lamp(W)	Lamp Current(A)	Weight (kg)
PC02-AL-2/400	198-305	852	3.71A@230V	240-400	1.8-4.8	2.2

PC7 Series Electronic Ballast

Technical specifications

Mains voltage:110/240VAC

Mains Frequency: 50/60Hz

Power Factor:>0.98

Efficiency:>90%

Operating Frequency:40-80kHz

Starting: Preheat

Dimensions:185*56*38mm



Lamp status indication via LED indication

Green LED: Lamp on

Red LED: Lamp fault

Lamp status forwarding

Potential free relay contacts for lamp on/lamp fault..

Installation requirement

Wire Gauge:0.5-1.0mm²

Mounting restrictions

Disconnect Input Power Before Installing or Servicing.

Ballast Case must Be Grounded.

Don't short any two wires of the four outputs.

Features

0~10V dimmable function:

The lamp power can be adjusted from 5% to 100%.

Applications

=>Air purification

=>Industrial water treatment

=>Kitchen purification

Type	Input Voltage(V)	Input Power(W)	Power Per Lamp(W)	Lamp Current(A)	Weight(kg)
PC7-800-95	108	1.0A@110V 0.46A@240V	75-95	0.75-0.85	0.30

PC9 Series Electronic Ballast

Technical specifications

Mains voltage:230VAC

Power Factor:>0.98

Efficiency:>94%

Operating Frequency:28-60kHz

Starting: Preheat

Dimensions:250*108*57mm



Lamp status indication via LED indication

Green LED: Lamp on

Red LED: Lamp fault

Lamp status forwarding

Potential free relay contacts for lamp on/lamp fault..

Installation requirement

Wire Gauge:0.5-1.0mm²

Relay contacts: potential free,

Load:50...500mA at 24...230V AC;

50...500mA at 5...60V DC

Mounting restrictions

Disconnect Input Power Before Installing or Servicing.

Ballast Case must Be Grounded.

Don't short any two wires of the four outputs.

Features

PWM dimmable function:

The lamp power can be adjusted from 60% to 100%.

Type	Input Voltage(V)	Input Power(W)	Input Current(A)	Power Per Lamp(W)	Lamp Current(A)	Weight (kg)
PC9-AL-320P	198-264	341	1.49	240-325	1.8-2.2	0.83

PC10 Series Electronic Ballast

Technical specifications

Mains voltage:230VAC

Power Factor:>0.98

Efficiency:>94%

Operating Frequency:28-80kHz

Starting: Preheat

Dimensions:250*141*50mm



Lamp status indication via LED indication

Green LED: Lamp on

Red LED: Lamp fault

Lamp status forwarding

Potential free relay contacts for lamp on/lamp fault..

Installation requirement

Wire Gauge:0.5-1.5mm²

Max. cable length between ballasts and lamp:5m

Relay contacts: potential free,

Load:50...500mA at 24...230V AC;

50...500mA at 5...60V DC

Mounting restrictions

Disconnect Input Power Before Installing or Servicing.

Ballast Case must Be Grounded.

Don't short any two wires of the four outputs.

Features

RS485 dimmable function:

The lamp power can be adjusted from 60% to 100%.

Type	Input Voltage(V)	Input Power(W)	Input Current(A)	Power Per Lamp(W)	Lamp Current(A)	Weight (kg)
PC10-AL-2/320	198-305	692	3.07	2*240-325	1.8-2.2	1.16

PC19 Series Electronic Ballast

PC19-AL-800

1. Before installing and maintaining, disconnect the power (pluck the power connector). Forced disconnect the “poke key”, then unplug the power cord out.
2. Before plug and pull the power cord, power off the ballast.
3. Working temperature: -15°C to $+75^{\circ}\text{C}$.
4. No cover or shield on ballast surface.
5. Connecting wire between ballast and lamp length: 2.5m, Max. 5m. Capacitance: max. $100\mu\text{F}$
6. Ballast case must be grounded.
7. Ballasts have a greater impact on startup current, so when the ballasts are used concentrate, don't start simultaneously excessive ballasts, and start in turns according to the site conditions and the lamp power and quantity.
8. All electronic ballasts are designed with EMC filter circuit, which means some ballast leak some current to the earth, so the leakage current protection switch is not suggested to be installed on the device, or else, it will be easier to find protection switch malfunction phenomenon. (Note: Each ballast has different leakage current, single maximum leakage current is less than 4mA)
9. Wire gauge: $1.5\text{-}2.5\text{mm}^2$. Pressure resistant: $\geq 500\text{Vrms}$.
10. Technical Specification

Max. Input power: 851W

Rated power voltage: 380V 50/60Hz

Voltage range: 360-450V

Rated current: $2.3\text{A}@380\text{V}$

Power factor: >0.98

Input current total harmonic content: $<15\%$

Protected power: $<4\text{W}$

Inrush current: $<8\text{Arms}/10\text{Ap}$

Lamp current: $5.0\text{A}\pm 5\%$; $5.5\text{A}\pm 5\%$; $6.0\text{A}\pm 5\%$; $7.0\text{A}\pm 5\%$; $8.0\text{A}\pm 5\%$; $8.5\text{A}\pm 5\%$;
 $9.0\text{A}\pm 5\%$; $10\text{A}\pm 5\%$.

Lamp power: 800W

Work frequency: 36-65KHz

Dimming control way: RS485

Filament peak current: <1.7

Efficiency: $\geq 94\%$

Dimensions: 300x198x75mm

Weight: 2.75kg

IP class: IP20

Start way: Preheat



PD3 Series Electronic Ballast

Technical Specifications

Power factor: >0.5

Efficiency: >80%

Operating Frequency: 40-60KHz

Starting: Rapid

Dimensions: 65*45*35mm



Lamp status indication via LED indication

Green LED: lamp on

Red LED: lamp fault

Mounting Restrictions

Disconnect Input Power Before Installing or Servicing.

Don't short any two wires of the four outputs.

For application with less than one switch-on cycle per day

(Otherwise preheat start ballasts are recommended)

Applications

All areas of applications include UV lamps.

- ⇒ Air purification
- ⇒ Aquarium
- ⇒ Domestic drinking water

Optional Parts

Type	Input Voltage (V)	Input Power (W)	Input Current (A)	Power Per Lamp (W)	Lamp Current (A)	Weight (kg)
PD3-180-10	198-264	5-10	0.08A@230V	4-8	0.15-0.18	0.15
PD3-425-18	198-264	12-21	0.17A@230V	10-17	0.35-0.42	0.15
PD3-180-10A	99-132	5-10	0.15A@120V	4-8	0.15-0.18	0.15
PD3-425-18A	99-132	12-21	0.31A@120V	10-17	0.35-0.42	0.15
PA3-425-18U	99-264	12-21	0.19A@110V 0.09A@240V	10-17	0.39-0.43	0.2

PD4 Series Electronic Ballast

Technical Specifications

Mains Frequency: 50/60Hz

Power factor: >0.5

Efficiency: >80%

Operating Frequency: 40-60KHz

Starting: Rapid

Dimensions: 94*50*34mm



Lamp status indication via LED indicators

Green LED: lamp on

Red LED: lamp fault

Mounting Restrictions

Disconnect Input Power Before Installing or Servicing.

Don't short any two wires of the four outputs.

Applications

All areas of applications include UV lamps.

- ⇒ Air purification
- ⇒ Aquarium
- ⇒ Domestic drinking water

Optional Parts

Type	Input Voltage (V)	Input Power (W)	Input Current (A)	Power Per Lamp (W)	Lamp Current (A)	Weight (kg)
PD4-425-40	198-264	45	0.36A@230V	21-41	0.35-0.42	0.18
PD4-425-40A	99-132	45	0.68A@120V	21-41	0.35-0.42	0.18

PD11 Series Electronic Ballast

Technical Specifications

Efficiency: >87%

Operating Frequency: 40-60KHz

Starting: Rapid

Dimensions: 165*38*26mm



Installation Requirement

Wire Gauge: 0.5-1.5mm²

Max. cable length between ballasts and lamp: 1.5m

LED specification: $V_F=1.8-3.6V$ $I_F=20-50mA$

Mounting Restrictions

Disconnect Input Power Before Installing or Servicing.

Don't short any two wires of the four outputs.

For applications with less than one switch-on cycle per day

(Otherwise preheat start ballasts are recommended)

Lamp filament must be suitable for instant start operation, need confirm with lam manufacturer.

Features

Lamp status indication via DC signal output.

DC3-6V 5mA: lamp on.

DC0-2V: lamp fault or no lamp.

Connect LED

Applications

All areas of applications include UV lamps.

- ⇒ Air purification
- ⇒ Aquarium
- ⇒ Domestic drinking water

Type	Input Voltage (V)	Input Power (W)	Input Current (A)	Power Per Lamp (W)	Lamp Current (A)	Weight (kg)
PD11-425-40D24	21.6-26.4	22-47	2.0	10-41	0.39-0.43	0.56
PD11-425-40D12	10.8-13.2	25-49	4.1	10-41	0.39-0.43	0.56

PD12 Series Electronic Ballast

Technical specifications

Mains Frequency:50/60Hz

Power Factor:>0.5

Efficiency:>80%

Operating Frequency:40-60kHz

Starting: Rapid

Dimensions:80*40*22mm



Installation requirement

Wire Gauge:0.5-1.0mm²

Mounting restrictions

Disconnect Input Power Before Installing or Servicing.

Don't short any two wires of the four outputs.

Applications

All areas of applications include UV lamps:

=>Air purification

=>Aquarium

=>Domestic drinking waste

Type	Input Voltage(V)	Input Power(W)	Input Current (A)	Power Per Lamp(W)	Lamp Current(A)	Weight (kg)
PD12-180-10	198-264	5-10	0.08A@230V	4-8	0.16-0.18	0.048
PD12-350-15	198-264	18.7	0.16A@230V	15	0.30-0.35	0.048
PD12-425-18	198-264	12-21	0.17A@230V	10-17	0.35-0.42	0.048
PD12-180-10A	99-132	5-10	0.15A@120V	4-8	0.16-0.18	0.048
PD12-350-15A	99-132	18.7	0.30A@120V	15	0.30-0.35	0.048
PD12-425-18A	99-132	12-21	0.31A@120V	10-17	0.35-0.42	0.048

PD15 Series Electronic Ballast

Technical specifications

Power Factor: >0.5

Efficiency: >80%

Operating Frequency: 40-60 kHz

Dimensions: 85*43*27mm

Input line length: 330mm

Output line length: 330mm

Signal line length: 330mm



Installation requirement

Wire Gauge: 0.5-1.0mm²

LDE specification: $V_F=1.8-3.6V$ $I_F=20-50mA$

Mounting restrictions

Disconnect Input Power Before Installing or Servicing.

Ballast Case must Be Grounded.

Don't short any two wires of the four outputs.

For applications with less than one

Switch-on cycle per day

(Other otherwise preheat start ballasts are recommended)

Features

Starting: Rapid

Lamp status indication via DC signal output.

DC5V \pm 5% 5mA:lamp on. DC 0V: lamp fault or no lamp.

Applications

All areas of applications include UV lamps:

=>Air purification

=>Aquarium

=>Domestic drinking water

Type	Input Voltage(V)	Input Power	Input Current(A)	Power Per Lamp	Lamp Current(A)	Weight (kg)
PD15-180-10	198-264	5-10W	0.06A@230V	4-8W	0.16-0.18	0.15
PD15-350-15	198-264	18.7W	0.16A@230V	15W	0.30-0.35	0.15
PD15-425-18	198-264	12-21W	0.17A@230V	10-17W	0.35-0.42	0.15
PD15-180-10A	99-132	5-10W	0.15A@120V	4-8W	0.16-0.18	0.15
PD15-350-15A	99-132	18.7W	0.30A@120V	15W	0.30-0.35	0.15
PD15-425-18A	99-132	12-21W	0.31A@120V	10-17W	0.35-0.42	0.15

PD33 Series Electronic Ballast

Technical specifications

Mains Voltage: 230VAC

Mains Frequency: 50/60Hz

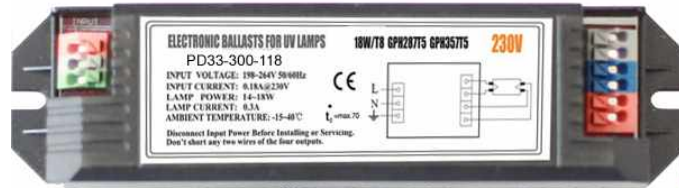
Power Factor: >0.97

Efficiency: >90%

Operating Frequency: 40-60 kHz

Starting: Rapid

Dimensions: 149*40*30mm



Installation requirement

Wire Gauge: 0.5-1.0mm²

Mounting restrictions

Disconnect Input Power Before Installing or Servicing.

Don't short any two wires of the four outputs.

Type	Input Voltage(V)	Input Power(W)	Input Current(A)	Power Per Lamp(W)	Lamp Current(A)	Weight (kg)
PD33-300-118	198-264	20	0.18A@230V	14-18	0.3	0.15
PD33-300-136	198-264	40	0.20A@230V	30-40	0.3	0.15
PD33-300-218	198-264	40	0.20A@230V	1*30-40 2*14-18	0.3	0.15

PD34 Series Electronic Ballast

Technical specifications

Mains Voltage: 230VAC

Mains Frequency: 50/60Hz

Power Factor: >0.97

Efficiency: >90%

Operating Frequency: 40-60 kHz

Starting: Rapid

Dimensions: 210*40*30mm



Installation requirement

Wire Gauge: 0.5-1.0mm²

Mounting restrictions

Disconnect Input Power Before Installing or Servicing.

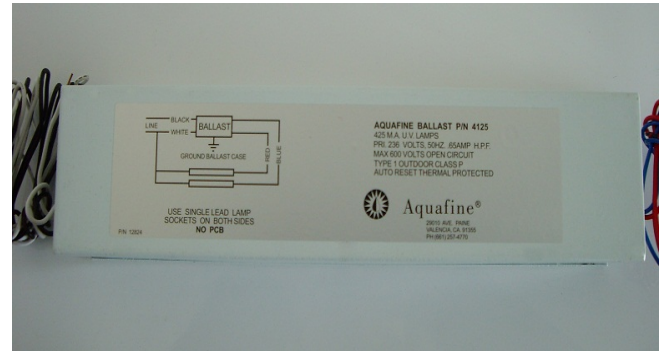
Don't short any two wires of the four outputs.

Type	Input Voltage(V)	Input Power(W)	Input Current(A)	Power Per Lamp(W)	Lamp Current(A)	Weight (kg)
PD34-425-90	198-264	90	0.7A@230V	41-79	0.39-0.43	0.2
PD34-300-2/36	198-264	75	0.59A@230V	2*30-40	0.3	0.2

Aquafine Ballasts

AQUAFINE BALLAST P/N 4125

425 M.A. U.V. LAMPS
PRI. 236 VOLTS, 50HZ. .65 AMP H.P.F.
MAX 600 VOLTS OPEN CIRCUIT
TYPE 1 OUTDOOR CLASS P
AUTO RESET THERMAL PROTECTED



AQUAFINE BALLAST P/N 43474-1

POWER INPUT 120 / 240V 50/60HZ
TYPICAL INPUT CURRENT: 2.25A/1.1A
POWER FACTOR > 0.99 MAX. OPEN CIRCUIT VOLTAGE: 800V
SOUND RATING A, NO PCB'S, TYPE 1 OUTDOOR, CLASS P
VOLTS TO GROUND LESS THAN 600 VOLTS

CAUTION:
DISCONNECT LINE VOLTAGE BEFORE
INSTALLING
OR REPLACING BALLAST OR LAMPS.
BALLAST CASE MUST BE GROUNDED.



AQUAFINE BALLAST P/N 16518-1

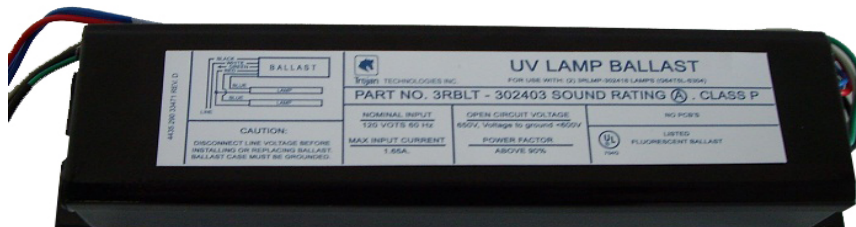


Trojan Electronic Ballast

Trojan 903988-001



Trojan 302403



Photoscience Electronic Ballast

