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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±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

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

<table>
<thead>
<tr>
<th>Type</th>
<th>Input Voltage (V)</th>
<th>Input Power (W)</th>
<th>Input Current (A)</th>
<th>Power Per Lamp (W)</th>
<th>Lamp Current (A)</th>
<th>Weight (kg)</th>
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<tbody>
<tr>
<td>PA5-425-40</td>
<td>198-264</td>
<td>45</td>
<td>0.36A@230V</td>
<td>21-41</td>
<td>0.39-0.43</td>
<td>0.44</td>
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<tr>
<td>PA5-425-40A</td>
<td>99-132</td>
<td>45</td>
<td>0.68A@120V</td>
<td>21-41</td>
<td>0.39-0.43</td>
<td>0.44</td>
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<tr>
<td>PA5-425-40U</td>
<td>99-264</td>
<td>12-48</td>
<td>0.44A@110V 0.20A@240V</td>
<td>10-41</td>
<td>0.39-0.43</td>
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</table>
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: \( V_f = 1.8-3.6 \text{V} \), \( I_f = 5-20 \text{mA} \)

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±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

<table>
<thead>
<tr>
<th>Type</th>
<th>Input Voltage (V)</th>
<th>Input Power (W)</th>
<th>Input Current (A)</th>
<th>Power Per Lamp (W)</th>
<th>Lamp Current (A)</th>
<th>Weight (kg)</th>
</tr>
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<tbody>
<tr>
<td>PA6-425-2/18U</td>
<td>99-264</td>
<td>24-48</td>
<td>0.44A@110V</td>
<td>1*36-41</td>
<td>0.39-0.43</td>
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<tr>
<td></td>
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<td></td>
<td>0.20A@240V</td>
<td>2*10-21</td>
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<tr>
<td>PA6-800-35U</td>
<td>99-264</td>
<td>41-56</td>
<td>0.52A@110V</td>
<td>35-48</td>
<td>0.75-0.85</td>
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<td></td>
<td>0.24A@240V</td>
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</table>
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: Vf=1.8-3.6V If=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±5% (5mA) : lamp on.
DC 0V: lamp fault or no lamp.
Connect LED.

Applications
⇒ Air purification
⇒ Industrial water treatment
⇒ Kitchen purification

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

<table>
<thead>
<tr>
<th>Type</th>
<th>Input Voltage (V)</th>
<th>Input Power (W)</th>
<th>Input Current (A)</th>
<th>Power Per Lamp (W)</th>
<th>Lamp Current (A)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA7-425-75U</td>
<td>99-264</td>
<td>62-90</td>
<td>0.83@110V 0.38@240V</td>
<td>37-79</td>
<td>0.39-0.43</td>
<td>0.27</td>
</tr>
<tr>
<td>PA7-800-95U</td>
<td>99-264</td>
<td>62.5-108</td>
<td>1.0A@110V 0.46A@240V</td>
<td>35-95</td>
<td>0.75-0.85</td>
<td>0.27</td>
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<tr>
<td>PA7-1200-105U</td>
<td>99-264</td>
<td>49-119</td>
<td>1.10A@110V 0.50A@240V</td>
<td>42-105</td>
<td>1.10-1.30</td>
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<tr>
<td>PA7-1500-80U</td>
<td>99-264</td>
<td>85-91</td>
<td>0.84A@110V 0.38A@240V</td>
<td>75-80</td>
<td>1.40-1.60</td>
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<tr>
<td>PA7-1800-57U</td>
<td>99-264</td>
<td>67</td>
<td>0.62A@110V 0.28A@240V</td>
<td>57</td>
<td>1.70-1.90</td>
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</table>
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±5% 5mA: lamp on.
DC0V: lamp fault or no lamp. Connect LED.
DC5V±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

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

<table>
<thead>
<tr>
<th>Type</th>
<th>Input Voltage (V)</th>
<th>Input Power (W)</th>
<th>Input Current (A)</th>
<th>Power Per Lamp (W)</th>
<th>Lamp Current (A)</th>
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<tbody>
<tr>
<td>PA9-1800-240</td>
<td>198-264</td>
<td>256</td>
<td>1.12A@230V</td>
<td>57-240</td>
<td>1.7-1.9</td>
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<tr>
<td>PA9-2100-320</td>
<td>198-264</td>
<td>341</td>
<td>1.49A@230V</td>
<td>80-325</td>
<td>2.0-2.2</td>
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</tbody>
</table>

10
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±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

<table>
<thead>
<tr>
<th>Type</th>
<th>Input Voltage (V)</th>
<th>Input Power (W)</th>
<th>Input Current (A)</th>
<th>Power Per Lamp (W)</th>
<th>Lamp Current (A)</th>
<th>Weight (kg)</th>
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<tbody>
<tr>
<td>PA10-5500-500</td>
<td>198-264</td>
<td>532</td>
<td>2.32A@230V</td>
<td>400-500</td>
<td>4.8-5.5</td>
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<tr>
<td>PA10-AL-800W</td>
<td>198-264</td>
<td>851</td>
<td>3.7A@230V</td>
<td>800W</td>
<td>7.0-8.0</td>
<td>1.2</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Type</th>
<th>Input Voltage (V)</th>
<th>Input Power (W)</th>
<th>Input Current (A)</th>
<th>Power Per Lamp (W)</th>
<th>Lamp Current (A)</th>
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<tbody>
<tr>
<td>PA10-AL-2/320</td>
<td>198-264</td>
<td>692</td>
<td>3.07A</td>
<td>2*240-320</td>
<td>1.8-2.2</td>
</tr>
</tbody>
</table>
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: Vf=1.8-3.6V I=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

<table>
<thead>
<tr>
<th></th>
<th>Type</th>
<th>Input Voltage (V)</th>
<th>Input Power (W)</th>
<th>Input Current (A)</th>
<th>Power Per Lamp (W)</th>
<th>Lamp Current (A)</th>
<th>Weight (kg)</th>
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<tbody>
<tr>
<td></td>
<td>PA11-425-40</td>
<td>198-264</td>
<td>28-46</td>
<td>0.37A@230V</td>
<td>10-41</td>
<td>0.39-0.43</td>
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<td>PA11-425-40A</td>
<td>99-132</td>
<td>28-46</td>
<td>0.70A@120V</td>
<td>10-41</td>
<td>0.39-0.43</td>
<td>0.22</td>
</tr>
</tbody>
</table>
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: Vf=1.8-3.6V  If=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

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

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

<table>
<thead>
<tr>
<th>Type</th>
<th>Input Voltage(V)</th>
<th>Input Power(W)</th>
<th>Input Current(A)</th>
<th>Power Per Lamp(W)</th>
<th>Lamp Current(A)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA21-425-90</td>
<td>198-264</td>
<td>90</td>
<td>0.7A@230V</td>
<td>41-79</td>
<td>0.39-0.43</td>
<td>0.14</td>
</tr>
</tbody>
</table>
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 water
=> Industrial water treatment

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

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

<table>
<thead>
<tr>
<th>Type</th>
<th>Input Voltage(V)</th>
<th>Input Power(W)</th>
<th>Input Current(A)</th>
<th>Power Per Lamp(W)</th>
<th>Lamp Current(A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PB8-425-2/75</td>
<td>99-264</td>
<td>93-175</td>
<td>0.77A@230V</td>
<td>21-79</td>
<td>0.39-0.43</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Type</th>
<th>Input Voltage(V)</th>
<th>Input Power(W)</th>
<th>Input Current(A)</th>
<th>Power Per Lamp(W)</th>
<th>Lamp Current(A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PB9-800-2/155</td>
<td>198-305</td>
<td>330</td>
<td>1.44A@230V</td>
<td>2*55-155</td>
<td>0.75-0.85</td>
</tr>
<tr>
<td>PB9-1200-2/190</td>
<td>198-305</td>
<td>405</td>
<td>1.76A@230V</td>
<td>2*42-190</td>
<td>1.1-1.3</td>
</tr>
<tr>
<td>PB9-1500-2/150</td>
<td>198-305</td>
<td>405</td>
<td>1.76A@230V</td>
<td>2*57-150</td>
<td>1.4-1.6</td>
</tr>
<tr>
<td>PB9-1800-2/150</td>
<td>198-305</td>
<td>320</td>
<td>1.40A@230V</td>
<td>2*65-150</td>
<td>1.7-1.9</td>
</tr>
<tr>
<td>PB9-2100-2/172</td>
<td>198-305</td>
<td>366</td>
<td>1.60A@230V</td>
<td>2*80-172</td>
<td>2.0-2.2</td>
</tr>
</tbody>
</table>
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: Vf=1.8-3.6V If=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

<table>
<thead>
<tr>
<th>Type</th>
<th>Input Voltage(V)</th>
<th>Input Power(W)</th>
<th>Input Current(A)</th>
<th>Power Per Lamp(W)</th>
<th>Lamp Current(A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PB11-425-40</td>
<td>198-264</td>
<td>28-46</td>
<td>0.37A@230V</td>
<td>10-41</td>
<td>0.39-0.43</td>
</tr>
<tr>
<td>PB11-530-55</td>
<td>198-264</td>
<td>61</td>
<td>0.49A@230V</td>
<td>55</td>
<td>0.47-0.53</td>
</tr>
<tr>
<td>PB11-425-40A</td>
<td>99-132</td>
<td>28-46</td>
<td>0.70A@120V</td>
<td>10-41</td>
<td>0.39-0.43</td>
</tr>
<tr>
<td>PB11-530-55A</td>
<td>99-132</td>
<td>61</td>
<td>0.93A@120V</td>
<td>55</td>
<td>0.47-0.53</td>
</tr>
</tbody>
</table>
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: \( V_r = 1.8\text{-}3.6\text{V} \), \( I_r = 20\text{-}50\text{mA} \)

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

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

<table>
<thead>
<tr>
<th>Type</th>
<th>Input Voltage(V)</th>
<th>Input Power(W)</th>
<th>Input Current(A)</th>
<th>Power Per Lamp(W)</th>
<th>Lamp Current(A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC01-AL-2/320</td>
<td>198-305</td>
<td>692</td>
<td>3.0A@230V</td>
<td>240-325</td>
<td>1.8-2.2</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Type</th>
<th>Input Voltage(V)</th>
<th>Input Power(W)</th>
<th>Input Current(A)</th>
<th>Power Per Lamp(W)</th>
<th>Lamp Current(A)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC02-AL-2/400</td>
<td>198-305</td>
<td>852</td>
<td>3.71A@230V</td>
<td>240-400</td>
<td>1.8-4.8</td>
<td>2.2</td>
</tr>
</tbody>
</table>
**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

<table>
<thead>
<tr>
<th>Type</th>
<th>Input Voltage(V)</th>
<th>Input Power(W)</th>
<th>Power Per Lamp(W)</th>
<th>Lamp Current(A)</th>
<th>Weight(kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC7-800-95</td>
<td>108</td>
<td>1.0A@110V 0.46A@240V</td>
<td>75-95</td>
<td>0.75-0.85</td>
<td>0.30</td>
</tr>
</tbody>
</table>
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%.

<table>
<thead>
<tr>
<th>Type</th>
<th>Input Voltage(V)</th>
<th>Input Power(W)</th>
<th>Input Current(A)</th>
<th>Power Per Lamp(W)</th>
<th>Lamp Current(A)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC9-AL-320P</td>
<td>198-264</td>
<td>341</td>
<td>1.49</td>
<td>240-325</td>
<td>1.8-2.2</td>
<td>0.83</td>
</tr>
</tbody>
</table>
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%.

<table>
<thead>
<tr>
<th>Type</th>
<th>Input Voltage(V)</th>
<th>Input Power(W)</th>
<th>Input Current(A)</th>
<th>Power Per Lamp(W)</th>
<th>Lamp Current(A)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC10-AL-2/320</td>
<td>198-305</td>
<td>692</td>
<td>3.07</td>
<td>2*240-325</td>
<td>1.8-2.2</td>
<td>1.16</td>
</tr>
</tbody>
</table>
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.
4. No cover or shield on ballast surface.
5. Connecting wire between ballast and lamp length: 2.5m, Max. 5m. Capacitance: max. 100μF
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: 1.5-2.5mm². Pressure resistant: ≥500Vrms.
10. Technical Specification
   Max. Input power: 851W
   Rated power voltage: 380V 50/60Hz
   Voltage range: 360-450V
   Rated current: 2.3A@380V
   Power factor: >0.98
   Input current total harmonic content: <15%
   Protected power: <4W
   Inrush current: <8Arms/10Ap
   Lamp current: 5.0A±5%; 5.5A±5%; 6.0A±5%; 7.0A±5%; 8.0A±5%; 8.5A±5%; 9.0A±5%; 10A±5%.
   Lamp power: 800W
   Work frequency: 36-65KHz
   Dimming control way: RS485
   Filament peak current: <1.7
   Efficiency: ≥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

<table>
<thead>
<tr>
<th>Type</th>
<th>Input Voltage (V)</th>
<th>Input Power (W)</th>
<th>Input Current (A)</th>
<th>Power Per Lamp (W)</th>
<th>Lamp Current (A)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PD3-180-10</td>
<td>198-264</td>
<td>5-10</td>
<td>0.08A@230V</td>
<td>4-8</td>
<td>0.15-0.18</td>
<td>0.15</td>
</tr>
<tr>
<td>PD3-425-18</td>
<td>198-264</td>
<td>12-21</td>
<td>0.17A@230V</td>
<td>10-17</td>
<td>0.35-0.42</td>
<td>0.15</td>
</tr>
<tr>
<td>PD3-180-10A</td>
<td>99-132</td>
<td>5-10</td>
<td>0.15A@120V</td>
<td>4-8</td>
<td>0.15-0.18</td>
<td>0.15</td>
</tr>
<tr>
<td>PD3-425-18A</td>
<td>99-132</td>
<td>12-21</td>
<td>0.31A@120V</td>
<td>10-17</td>
<td>0.35-0.42</td>
<td>0.15</td>
</tr>
</tbody>
</table>
| 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

<table>
<thead>
<tr>
<th>Type</th>
<th>Input Voltage (V)</th>
<th>Input Power (W)</th>
<th>Input Current (A)</th>
<th>Power Per Lamp (W)</th>
<th>Lamp Current (A)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PD4-425-40</td>
<td>198-264</td>
<td>45</td>
<td>0.36A@230V</td>
<td>21-41</td>
<td>0.35-0.42</td>
<td>0.18</td>
</tr>
<tr>
<td>PD4-425-40A</td>
<td>99-132</td>
<td>45</td>
<td>0.68A@120V</td>
<td>21-41</td>
<td>0.35-0.42</td>
<td>0.18</td>
</tr>
</tbody>
</table>
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 lamp 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

<table>
<thead>
<tr>
<th>Type</th>
<th>Input Voltage (V)</th>
<th>Input Power (W)</th>
<th>Input Current (A)</th>
<th>Power Per Lamp (W)</th>
<th>Lamp Current (A)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PD11-425-40D24</td>
<td>21.6-26.4</td>
<td>22-47</td>
<td>2.0</td>
<td>10-41</td>
<td>0.39-0.43</td>
<td>0.56</td>
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<tr>
<td>PD11-425-40D12</td>
<td>10.8-13.2</td>
<td>25-49</td>
<td>4.1</td>
<td>10-41</td>
<td>0.39-0.43</td>
<td>0.56</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Type</th>
<th>Input Voltage(V)</th>
<th>Input Power(W)</th>
<th>Input Current (A)</th>
<th>Power Per Lamp(W)</th>
<th>Lamp Current(A)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PD12-180-10</td>
<td>198-264</td>
<td>5-10</td>
<td>0.08A@230V</td>
<td>4-8</td>
<td>0.16-0.18</td>
<td>0.048</td>
</tr>
<tr>
<td>PD12-350-15</td>
<td>198-264</td>
<td>18.7</td>
<td>0.16A@230V</td>
<td>15</td>
<td>0.30-0.35</td>
<td>0.048</td>
</tr>
<tr>
<td>PD12-425-18</td>
<td>198-264</td>
<td>12-21</td>
<td>0.17A@230V</td>
<td>10-17</td>
<td>0.35-0.42</td>
<td>0.048</td>
</tr>
<tr>
<td>PD12-180-10A</td>
<td>99-132</td>
<td>5-10</td>
<td>0.15A@120V</td>
<td>4-8</td>
<td>0.16-0.18</td>
<td>0.048</td>
</tr>
<tr>
<td>PD12-350-15A</td>
<td>99-132</td>
<td>18.7</td>
<td>0.30A@120V</td>
<td>15</td>
<td>0.30-0.35</td>
<td>0.048</td>
</tr>
<tr>
<td>PD12-425-18A</td>
<td>99-132</td>
<td>12-21</td>
<td>0.31A@120V</td>
<td>10-17</td>
<td>0.35-0.42</td>
<td>0.048</td>
</tr>
</tbody>
</table>
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: \( V_F = 1.8 \text{ to } 3.6 \text{V} \) \( I_F = 20 \text{ to } 50 \text{mA} \)

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

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

<table>
<thead>
<tr>
<th>Type</th>
<th>Input Voltage(V)</th>
<th>Input Power(W)</th>
<th>Input Current(A)</th>
<th>Power Per Lamp(W)</th>
<th>Lamp Current(A)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PD33-300-118</td>
<td>198-264</td>
<td>20</td>
<td>0.18A@230V</td>
<td>14-18</td>
<td>0.3</td>
<td>0.15</td>
</tr>
<tr>
<td>PD33-300-136</td>
<td>198-264</td>
<td>40</td>
<td>0.20A@230V</td>
<td>30-40</td>
<td>0.3</td>
<td>0.15</td>
</tr>
<tr>
<td>PD33-300-218</td>
<td>198-264</td>
<td>40</td>
<td>0.20A@230V</td>
<td>1<em>30-40 2</em>14-18</td>
<td>0.3</td>
<td>0.15</td>
</tr>
</tbody>
</table>
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.

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