IPH100 INDUCTIVE POWER SUPPLY

Product Code: IPH100

24V power supply for inductive powered ONROADLED systems.

Features

- Capable of powering 100 m of IPH cable
- Capable of powering 30 IPH Nodes and ONROADLED markers
- External 24V DC supply required

Connectivity

- Input Supply Connector: 4 pin microphone female plug
- Output Connector: 2 pin microphone male plug

Operating Environment

- Operating Temperature: -15°C to 65°C
- Humidity: 10% to 95%
- Cooling: Convection

Installation

- Orientation: Vertical or horizontal
- Installation Environment: Control cabinet
- Method of Attachment: Secured by 4 bolts to vertical or horizontal surface

Product Data

- Full product code: IPH100
- Full product name: IPH100 Inductive Power Supply
- Packing configuration: Horizontal
- packs per outerbox: 1
- Net weight per piece: 1.9 kg
- Made in New Zealand

Product data

- Functionality
  - Control: Remote On/Off
    - Sync output for ONROADLED status monitoring and control of other installed services
  - Operation: Slow flash, pulsing flash, Continuously on

- Electrical Specification
  - Electrical Input
    - Supply Voltage: 15VDC to 30VDC (24VDC Nominal)
    - Supply Current (max): 5.5 A
    - Power Consumption: between 50 and 150 W
    - Primary Supply Fuse: 6.3A Fused
  - Electrical Output
    - Frequency Range of Power Transmission: 38.4 kHz +/- 0.1%
    - Typical Cable Current: 5 to 6 A
    - Typical Cable Voltage: 30 to 60V

- Compliance
  - Regulatory Approvals: CE certified
  - CE marking: YES
  - RoHS: YES

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Rev 2.2  25 June 2014
**IPH100i INDUCTIVE POWER SUPPLY**

**Product Code: IPH100i**

24V power supply for inductive powered ONROADLED systems.

**Features**

- Capable of powering 100 m of IPH cable
- Capable of powering 30 IPH Nodes and ONROADLED markers
- Fully Programmable marker sequencing
- Can be controlled via Relays or RS232 Serial Port
- External 24V DC supply required

**Product data**

- **Functionality**
  - Power Supply Status: Can be monitored remotely via Relay or ProfiBUS
  - Control: Remote On/Off Sync output for ONROADLED status monitoring and control of other installed services
  - Intelligence Operation: Fully programmable, Switching and Dimming, Slow flash, Pulsing flash, Continuously on.

- **Electrical Specification**
  
  **Electrical Input**
  - Supply Voltage: 15VDC to 30VDC (24VDC Nominal)
  - Supply Current (max): 5.5 A
  - Power Consumption: between 50 and 150 W
  - Primary Supply Fuse: 6.3A Fused

  **Electrical Output**
  - Frequency Range of Power Transmission: 38.4 kHz +/- 0.1%
  - Typical Cable Current: 5 to 6 A
  - Typical Cable Voltage: 30 to 60V

- **Connectivity**
  - Input Supply Connector: 4 pin microphone female plug
  - Output Connector: 2 pin microphone male plug

- **Operating Environment**
  - Operating Temperature: -15°C to 65°C
  - Humidity: 10% to 95%
  - Cooling: Convection

- **Installation**
  - Orientation: Vertical or horizontal
  - Installation Environment: Control cabinet
  - Method of Attachment: Secured by 4 bolts to vertical or horizontal surface

- **Product Dimensions**
  - Length: 350 mm
  - Width: 140 mm
  - Height: 100 mm

- **Product Data**
  - Full product code: IPH100i
  - Full product name: IPH100i Inductive Power Supply
  - Pieces per pack: 1
  - Packing configuration: Horizontal
  - Packs per outerbox: 1
  - Net weight per piece: 3.5 kg
  - Made in New Zealand
IPH1000i INDUCTIVE POWER SUPPLY

Product Code: IPH1000i

230V power supply for inductive powered ONROADLED systems.

Features

- Capable of powering 1000m of IPH cable
- Capable of powering 100 IPH Nodes and ONROADLED markers
- Electrical cabinet or 19” Rack Mountable
- Intelligent control functions included

Connectivity

- Input Supply Connector: Standard Male IEC 10A
- Output Connector: Terminal blocks
- Digital I/O: 8 input, 4 output
- RS232 I/O Connector: Customer opto-isolated interface

Operating Environment

- Operating Temperature: -15°C to 65°C
- Humidity: 10% to 95%
- Cooling: Convection

Installation

- Orientation: Horizontal (4u x 19” Rack Mount)
- Method of Attachment: Secured by 4 bolts to vertical or horizontal surface

Product Dimensions

- Length: 176mm
- Width: 430mm
- Height: 320mm

Product Data

- Full product code: IPH1000i
- Full product name: IPH1000i Inductive Power Supply
- Pieces per pack: 1
- Packing configuration: Horizontal
- Packs per outerbox: 1
- Net weight per piece: 13.5kg
- Made in New Zealand

Product data

- Functionality
  - Power Supply Status: Can be monitored remotely via Relays
  - Intelligence Operation: Fully addressable, Flashing, Switching and Dimming, Independent or group control
  - Standard Dimming Levels: 50%, 80%, 100% (other available on request)

- Electrical Specification
  - Electrical Input
    - Supply Voltage: 230V, 50Hz-60Hz, Single Phase
    - Supply Current (max): 2 A
    - Power Factor: Approximately 0.96
    - Power Consumption: 400 W
    - Primary Supply Fuse: 4 A
  - Electrical Output
    - Frequency Range of Power Transmission: 38.4 kHz +/- 0.1%
    - Typical Cable Current: 4 A
    - Typical Cable Voltage: <100V

- Compliance
  - CE certified
  - EN55011+A1:1999
  - EN61000-6-2:2001
  - EN61000-3-2/A14:2001
  - EN61000-3-3:1995
  - EN60950:2000
  - RoHS: Yes
  - Made in New Zealand
IPH2000i INDUCTIVE POWER SUPPLY

Product Code: IPH2000i

230V power supply for inductive powered ONROADLED systems.

Features

- Capable of powering 2000m of IPH cable
- Capable of powering 200 IPH Nodes and ONROADLED markers
- Electrical cabinet or 19” Rack Mountable
- Intelligent control functions included

Product data

- Functionality
  - Power Supply Status: Can be monitored remotely via Relay or ProfiBUS
  - Intelligence Operation: Fully addressable, Flasching, Switching and Dimming, Independent or group control
  - Standard Dimming Levels: 50%, 80%, 100% (other available on request)

- Electrical Specification
  - Electrical Input
    - Supply Voltage: 230V, 50Hz-60Hz, Single Phase
    - Supply Current (max): 3.5 A
    - Power Factor: Approximately 0.96
    - Power Consumption: 850 W
    - Primary Supply Fuse: 4 A
  - Electrical Output
    - Frequency Range: 38.4 kHz +/- 0.1%
    - Power Transmission: Typical Cable Current 4 A, Typical Cable Voltage <200V

- Connectivity
  - Input Supply Connector: Standard Male IEC 10A
  - Output Connector: Terminal blocks
  - Digital I/O: 8 input, 4 output
  - RS232 I/O Connector: Customer opto-isolated interface

- Operating Environment
  - Operating Temperature: -15°C to 65°C
  - Humidity: 10% to 95%
  - Cooling: Convection

- Installation
  - Orientation: Horizontal (4u x 19” Rack Mount)
  - Installation Environment: Control cabinet
  - Method of Attachment: Secured by 4 bolts to vertical or horizontal surface

- Product Dimensions
  - Length: 176mm
  - Width: 430mm
  - Height: 320mm

- Product Data
  - Full product code: IPH2000i
  - Full product name: IPH2000i Inductive Power Supply
  - Pieces per pack: 1
  - Packing configuration: Horizontal
  - Packs per outerbox: 1
  - Net weight per piece: 14kg
  - Made in New Zealand

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IPL1200i INDUCTIVE POWER SUPPLY

Product Code: IPL1200i

24V power supply for inductive powered ONROADLED systems.

Features
- Capable of powering 1200m of IPL cable
- Capable of powering 120 IPL Nodes and TGM markers
- Electrical cabinet or 19” Rack Mountable
- Intelligent control functions included

Product data

- **Functionality**
  - Power Supply Status: Can be monitored remotely via Relays
  - Intelligence Operation: Fully addressable, Flashing, Switching and Dimming. Independent or group control
  - Standard Dimming Levels: 50%, 80%, 100% (other available on request)

- **Electrical Specification**
  - **Electrical Input**
    - Supply Voltage: 230V, 50Hz-60Hz, Single Phase
    - Supply Current (max): 3.5 A
    - Power Factor: Approximately 0.96
    - Power Consumption: 400 W
    - Primary Supply Fuse: 4 A
  - **Electrical Output**
    - Frequency Range of Power Transmission: 38.4 kHz +/- 0.1%
    - Typical Cable Current: 4 A
    - Typical Cable Voltage: <200V

- **Product Dimensions**
  - Length: 176mm
  - Width: 430mm
  - Height: 320mm

- **Connectivity**
  - Input Supply Connector: Standard Male IEC 10A
  - Output Connector: Terminal blocks
  - Digital I/O: 8 input, 4 output
  - RS232 I/O Connector: Customer opto-isolated interface

- **Operating Environment**
  - Operating Temperature: -15°C to 65°C
  - Humidity: 10% to 95%
  - Cooling: Convection

- **Installation**
  - Orientation: Horizontal (4u x19” Rack Mount)
  - Installation Environment: Control cabinet
  - Method of Attachment: Secured by 4 bolts to vertical or horizontal surface

- **Product Data**
  - Full product code: IPL1200i
  - Full product name: IPL1200i Inductive Power Supply
  - Pieces per pack: 1
  - Packing configuration: Horizontal
  - Packs per outerbox: 1
  - Net weight per piece: 13.5kg
  - Made in New Zealand
## Product data

### Functionality

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Power Supply Status</td>
<td>Can be monitored remotely via Relay or ProfiBUS</td>
</tr>
<tr>
<td>Intelligence Operation</td>
<td>Fully addressable, Flashing, Switching and Dimming, Independent or group control</td>
</tr>
<tr>
<td>Standard Dimming Levels</td>
<td>50%, 80%, 100% (other available on request)</td>
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</table>

### Electrical Specification

#### Electrical Input

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply Voltage</td>
<td>230V, 50Hz-60Hz, Single Phase</td>
</tr>
<tr>
<td>Supply Current (max)</td>
<td>3.5 A</td>
</tr>
<tr>
<td>Power Factor</td>
<td>Approximately 0.96</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>850 W</td>
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<tr>
<td>Primary Supply Fuse</td>
<td>4 A</td>
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</table>

#### Electrical Output

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Frequency Range of</td>
<td>38.4 kHz +/- 0.1%</td>
</tr>
<tr>
<td>Power Transmission</td>
<td>2 A</td>
</tr>
<tr>
<td>Typical Cable Voltage</td>
<td>&lt;400V</td>
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### Product Dimensions

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Measurement</th>
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</thead>
<tbody>
<tr>
<td>Length</td>
<td>176mm</td>
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<tr>
<td>Width</td>
<td>43mm</td>
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<tr>
<td>Height</td>
<td>32mm</td>
</tr>
</tbody>
</table>

## Features

- Capable of powering 2500m of IPL cable
- Capable of powering 250 IPL Nodes and TGM markers
- Electrical cabinet or 19" Rack Mountable
- Intelligent control functions included

## Connectivity

<table>
<thead>
<tr>
<th>Connector</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Supply</td>
<td>Standard Male IEC 10A</td>
</tr>
<tr>
<td>Output Connector</td>
<td>Terminal blocks</td>
</tr>
<tr>
<td>Digital I/O</td>
<td>8 input, 4 output</td>
</tr>
<tr>
<td>RS232 I/O Connector</td>
<td>Customer opto-isolated interface</td>
</tr>
</tbody>
</table>

## Operating Environment

- Operating Temperature: -15°C to 65°C
- Humidity: 10% to 95%
- Cooling: Convection

## Installation

- Orientation: Horizontal (4u x19" Rack Mount)
- Installation Environment: Control cabinet
- Method of Attachment: Secured by 4 bolts to vertical or horizontal surface

## Product Data

<table>
<thead>
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<td>Full product name</td>
<td>IPL2500i Inductive Power Supply</td>
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<td>Packing configuration</td>
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<td>Packs per outerbox</td>
<td>1</td>
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<td>Net weight per piece</td>
<td>13.5kg</td>
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<td>Made in New Zealand</td>
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