



2024

# CATALOG

EMERGENCY  
LIGHTING &  
BATTERY



**PT AKSEL KREASI UTAMA**
















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[www.accentaenergy.com](http://www.accentaenergy.com)

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# WHO WE ARE

Having established in 2017, ACCENTA introduce the best solution for lighting and safety of your building electricity management.

As nowadays, LED Lighting Dominates the market, Accenta also focus on reliable emergency battery for LED that is safe, reliable and cost efficient. The quality and range of our products can also match any application and requirement the buildings and factories require, from lighting, exit lighting, to emergency battery.



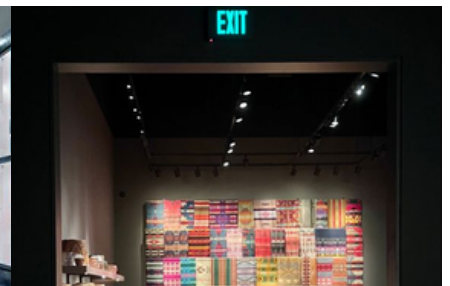
We, five companies focus on delivering professional solutions. lighting, electricals, plumbing and building automation in various segments of commercials, industrial and infrastructure projects.



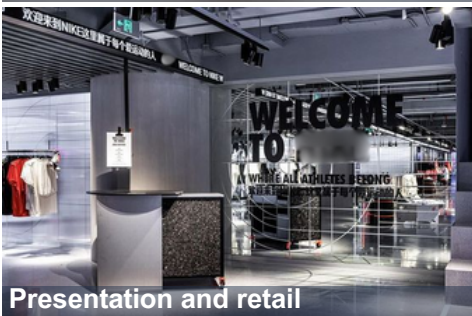
Offices and communication



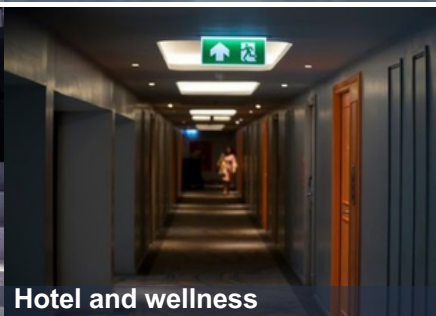
Education and health care



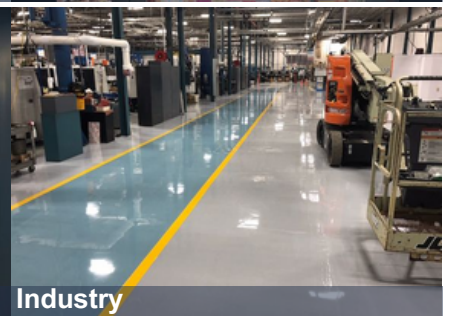
Art and culture



Presentation and retail



Hotel and wellness



Industry



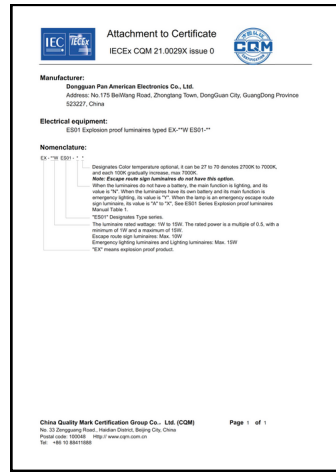
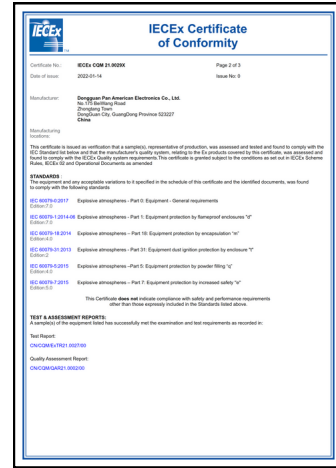
( Certification TKDN )



( Certification Attestation of conformity )



( INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres )



### Website and Product Database

Accenta website includes all relevant information, from product description, technical data and dimensional information. For each product, the data sheet in PDF format is available for downloading.

### Customize / Modified Product

High-grade, energy-efficient buildings are planned and managed using this powerful software. In the process, designs are modified or re-designed by simply clicking or using the drag&drop function. For a number of luminaires, 3D files for Autodesk Revit area available, including extensive product information such as dimensions and energy consumption. As soon as the luminaires are positioned, the beam patterns are displayed and the installed load is calculated.

### Emergency Control System

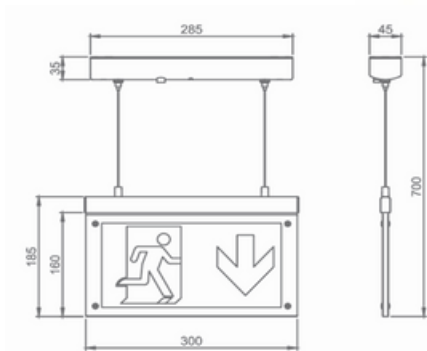
Lighting control is an essential requirement for effective emergency lighting installations. Through regular testing, and a range of monitoring and maintenance tools, we are control solution ensures that emergency lights function correctly around the clock so that occupants can evacuate safely in an emergency.

- -Control system features
- -System monitoring and reporting
- -Schedule emergency tests
- -Simple reconfiguration
- -End-of-life notification





## AXL-P219



- Laser printing Technology
- Excellent Light Transmittance
- Dedicated for small and medium-sized public buildings
- Adjustable legend for drop sign
- Changeable legend
- LifePO4 battery available
- Self test option available
- Working temperature: -5~40
- DALI version available on request



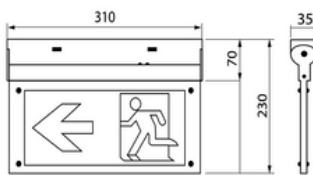
**MODEL NO** : AXL-P219  
**Mode of Operation** : Maintained  
**Lamp** : 16pcs SMD2835 LED  
**Wattage** : 2.5W  
**Battery** : 3.6V 900mAh LiFePO4  
**Rated Duration** : 3 hours  
**Charge** : 24 hours charging time  
**Mounting** : Hanging, Recessed/  
 Surface Mounted  
**Material** : Polycarbonate Frame,  
 PMMA Acrylic Legend



### Ordering Guide

Legend	Hanging Recessed	Hanging Surfaced
	AXL-P219/HR/E	AXL-P219/HS/E
	AXL-P219/HR/ER	AXL-P219/HS/ER
	AXL-P219/HR/EL	AXL-P219/HS/EL
	AXL-P219/HR/ED	AXL-P219/HS/ED
	AXL-P219/HR/M	AXL-P219/HS/M
	AXL-P219/HR/MR	AXL-P219/HS/MR
	AXL-P219/HR/ML	AXL-P219/HS/ML
	AXL-P219/HR/MB	AXL-P219/HS/MB
	AXL-P219/HR/MT	AXL-P219/HS/MT

## AXL-P220



- Laser printing technology
- Excellent light transmittance
- Dedicated for small and medium sized public buildings
- Maintained mode
- Working temperature : -5~40°C
- DALI version available on request



**MODEL NO** : AXL-P220  
**Mode of Operation** : Maintained  
**Lamp** : 16pcs SMD2835 LED  
**Wattage** : 2.5W  
**Battery** : 3.6V 900mAh LiFePO4  
**Rated Duration** : 3 hours  
**Charge** : 24 hours charging time  
**Mounting** : Surface Mounted  
**Material** : Epoxy coated steel body with screen, polycarbonate panel (adjustable legend)

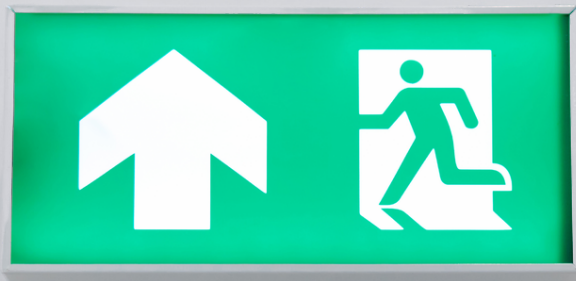


### Ordering Guide

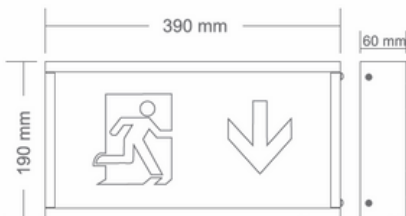
Legend	Recessed	Surfaced	Wall
	AXL-P220/R/E	AXL-P220/S/E	AXL-P220/W/E
	AXL-P220/R/ER	AXL-P220/S/ER	AXL-P220/W/ER
	AXL-P220/R/EL	AXL-P220/S/EL	AXL-P220/W/EL
	AXL-P220/R/ED	AXL-P220/S/ED	AXL-P220/W/ED
	AXL-P220/R/M	AXL-P220/S/M	AXL-P220/W/M
	AXL-P220/R/MR	AXL-P220/S/MR	AXL-P220/W/MR
	AXL-P220/R/ML	AXL-P220/S/ML	AXL-P220/W/ML
	AXL-P220/R/MB	AXL-P220/S/MB	AXL-P220/W/MB
	AXL-P220/R/MT	AXL-P220/S/MT	AXL-P220/W/MT



# EXIT LIGHT



## AXL-W310



<b>MODEL NO</b>	: <b>AXL-W310</b>
Mode of Operation	: Maintained
Lamp	: 20pcs SMD2835 LED
Wattage	: 3W
Battery	: 3.6V 1500mAh LiFePO4
Rated Duration	: 3 hours
Charge	: 24 hours chargingtime
Mounting	: Wall Mounted Box
Material	: Epoxy coated steel body with screen, polycarbonate panel

- Epoxy coated steel body with screen printed
- Chrome & brass housing available
- Double sided available
- Changeable legend
- LifePO4 battery available
- Self test option available
- Working temperature : -5~40°C
- DALI version available on request

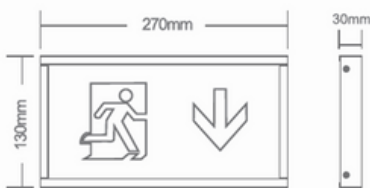
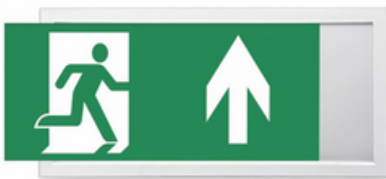


### Ordering Guide

Legend	Wall Mounted Box
	AXL-W310/W/E
	AXL-W310/W/ER
	AXL-W310/W/EL
	AXL-W310/W/ED
	AXL-W310/W/M
	AXL-W310/W/MR
	AXL-W310/W/ML
	AXL-W310/W/MB
	AXL-W310/W/MT



## AXL-W312



- Slim design
- Extra LED for escape route
- Changeable legend
- Self test option available
- Working temperature: -5~40
- DALI version available on request



**MODEL NO** : AXL-W312  
**Mode of Operation** : Maintained  
**Lamp** : 16pcs SMD2835 LED  
**Wattage** : 3W  
**Battery** : 3.6V 1200mAh LiFePO4  
**Rated Duration** : 3 hours  
**Charge** : 24 hours charging time  
**Mounting** : Wall Mounted Box  
**Material** : Epoxy coated steel body with screen, polycarbonate panel



### Ordering Guide

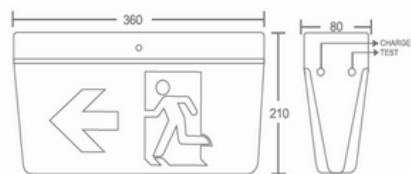
Legend	Wall Mounted Box
	AXL-W312/W/E
	AXL-W312/W/ER
	AXL-W312/W/EL
	AXL-W312/W/ED
	AXL-W312/W/M
	AXL-W312/W/MR
	AXL-W312/W/ML
	AXL-W312/W/MB
	AXL-W312/W/MT



# EXIT LIGHT



## AXL-P360



- Changeable PVC legend
- Easy installation and maintenance
- Comply with AS2293.3
- Working temperature : -5~40°C
- DALI version available on request



**MODEL NO** : AXL-P360  
**Mode of Operation** : Maintained  
**Lamp** : 16pcs SMD2835 LED  
**Wattage** : 4W  
**Battery** : 3.6V 900mAh LiFePO4  
**Rated Duration** : 3 hours  
**Charge** : 24 hours charging time  
**Mounting** : Mounted  
**Material** : Polycarbonate for complete body, Pendant  
 - Surface mounted body



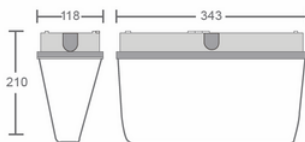
### Ordering Guide

Legend	Wall Mounted Box
	AXL-P360/P/E
	AXL-P360/P/ER
	AXL-P360/P/EL
	AXL-P360/P/ED
	AXL-P360/P/M
	AXL-P360/P/MR
	AXL-P360/P/ML
	AXL-P360/P/MB
	AXL-P360/P/MT

# EXIT LIGHT



## AXL-P805



- Ideal for use in corridors, exits and escape routes
- Test button available
- Self test option available
- Working temperature : -5~40°C
- DALI version available on request



<b>MODEL NO</b>	<b>: AXL-P805</b>
Mode of Operation	: Maintained
Lamp	: 30pcs SMD2835 LED
Wattage	: 4W
Battery	: 3.6V 1800mAh LiFePO4
Rated Duration	: 3 hours
Charge	: 24 hours charging time
Mounting	: Surface Mounted
Material	: Polycarbonate for complete body, Pendant - Recessed mounted body



### Ordering Guide

Legend	Wall Mounted Box
	AXL-P805/P/E
	AXL-P805/P/ER
	AXL-P805/P/EL
	AXL-P805/P/ED
	AXL-P805/P/M
	AXL-P805/P/MR
	AXL-P805/P/ML
	AXL-P805/P/MB
	AXL-P805/P/MT



# EXPLOSION-PROOF EXIT LIGHT



## AXX-E



<b>MODEL NO</b>	: <b>AXX-E</b>
<b>Certifications</b>	Global (IECEX)
<b>Gas</b>	: Ex db eb mb q IIC T4/T5/T6 Gb
<b>Dust</b>	: Ex tb IIC 80°C / 95°C/130°C Db IP66
<b>Rated voltage AC</b>	: 100-277VAC or 100-347VAC
<b>Rated voltage DC</b>	: 12 V - 36 V
<b>Rated frequency</b>	: 50 / 60 Hz
<b>Degree of protection</b>	: IP66
<b>Operation temperature</b>	: -20°C~+60°C (T5 / T95°C) or -20°C~+40°C (T6 / T80°C)
<b>Max surface temperature</b>	: T6 for gas and T80°C for dust
<b>Weight</b>	: approx. 4.32 kg / 9.52 lb
<b>Rated wattage</b>	: Regular wattage in normal mode: 3W Max. wattage in normal mode: 10W
<b>Lifespan</b>	: 50,000 hours
<b>Warranty</b>	: 5 years
<b>Batteries</b>	: 3.7V, 2 A
<b>Cable entry size</b>	: M25×1.5, 3/4 NPT
<b>Stopping plug</b>	: M25×1.5
<b>Emergency time</b>	: 3 hours
<b>Escape route sign luminaire</b>	: 3 hours
<b>Emergency lighting luminaire</b>	: ≥24 hours
<b>Impact strength (IK code)</b>	: IK08 (IEC 62262)
<b>Installed terminal strip</b>	: PE + N + L
<b>Connection terminals solid max</b>	: 4mm <sup>2</sup>
<b>Connection terminals finely stranded max</b>	: 2.5mm <sup>2</sup>

- Emergency control power supply specially designed for the luminaire. EMC/EMI function.
- 3-hour emergency operation. Central locking is available.
- Label content can be customized.
- Low working wattage for energy saving.
- Ingress protection rating IP66.
- Each lamp is equipped with a T-shaped unlocking tool that can be used for all lamps.
- DALI version available on request



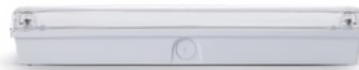
### Ordering Guide

Legend	Mounted Box
	AXXE/R/E
	AXXE/R/ER
	AXXE/R/EL
	AXXE/R/ED
	AXXE/R/M
	AXXE/R/MR
	AXXE/R/ML
	AXXE/R/MB
	AXXE/R/MT

# Emergency lighting

# AXL-W003

MODEL NO	: AXL-W003
Mode of Operation	: Maintained
Lamp	: 8pcs SMD2835 LED
Wattage	: 2.5W
Battery	: 3.6V 1200mAh LiFePO4
Rated Duration	: 3 hours
Charge	: 24 hours charging time
Mounting	: Recessed/Surface Mounted
Material	: Polycarbonate for complete body IP65



\*Recessed Kit



\*Double Side Exit



- New compact design
- Easy installation and maintenance
- Test button available
- Self test option available
- Working temperature : -5~40°C

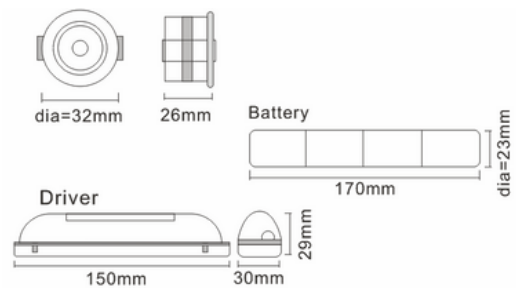




# Emergency lighting

# AXL-003B

MODEL NO	: AXL-B003B
Mode of Operation	: Not Maintained
Lamp	: 1pcs SMD2835 LED
Wattage	: 3W
Battery	: 3.6V 1800mAh LiFePO4
Rated Duration	: 3 hours
Charge	: 24 hours charging time
Material	: Aluminum construction
	Compact Design cut out 45mm



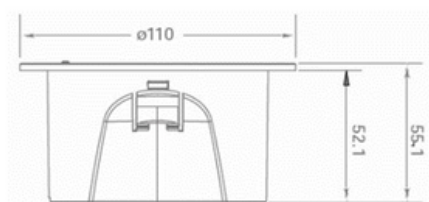
- 1x3W LED non - replaceable
- Lumen output 120lm
- Aluminium construction
- Compact Design
- Silver and Black reflector available
- Working temperature : -5~40°C



# Emergency lighting

## AXL-003M

**MODEL NO** : AXL-B003M  
**Mode of Operation** : Not Maintained  
**Lamp** : 1pcs SMD2835 LED  
**Wattage** : 3W  
**Battery** : 3.6V 900mAh LiFePO4  
**Rated Duration** : 3 hours  
**Charge** : 24 hours charging time  
**Material** : Aluminum construction  
Compact Design cut out  
45mm



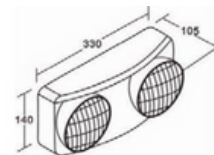
- Compact Design
- Lumen output 140lm
- LifePO4 3.2V 1500mAh available
- Working temperature: -5~40



# Emergency lighting

## AXL-W30

MODEL NO	: AXL-W30
Mode of Operation	: Maintained
Lamp	: 8pcs SMD2835 LED
Wattage	: 2.5W
Battery	: 3.6V 1800mAh LiFePO4
Rated Duration	: 3 hours
Charge	: 24 hours charging time
Material	: Injection-molded polycarbonate housing Injection-molded polycarbonate housing, Adjustable glare free round shape light heads



- Injection-molded polycarbonate housing
- Two fully adjustable glare-free round shape light heads for emergency light.
- Innovative, snap-together design for fast installation.
- Wall or Ceiling mounting.
- Easily removed mounting knock-outs on back panel. Low voltage battery disconnection - preventing deep discharge damage to the battery.







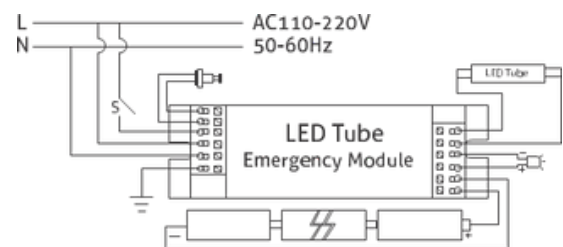
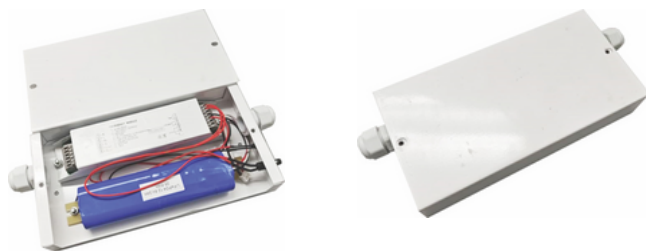
# EMERGENCY BATTERY

**ACCENTA** provides easy, Affordable and Reliable illumination. Our emergency lighting systems provide reliable illumination for up to 3 hours when powered by batteries.

For all you need and range of LED fixture that joint with our product range please see the product specification table below or ask the experties on our company to share which is the best solution.

Battery packs play a pivotal role in all emergency lighting systems. During AC power failure, the battery pack is automatically activated to power up the emergency lights at rated duration to guide occupants to safety.

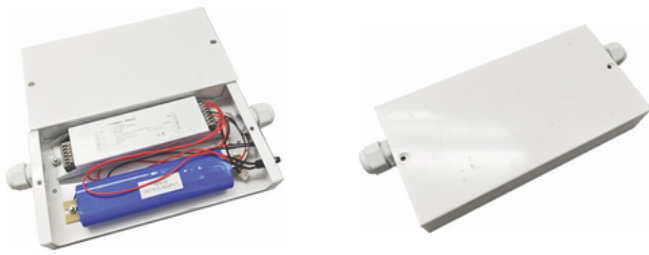
Our rechargeable Li-ON battery are rated to operate at high temperatures to ensure safety during normal and emergency operations. AEL-B800, AEL-B1000 and AEL-B1800 includes the inverter, battery pack and the LED charging indicator.



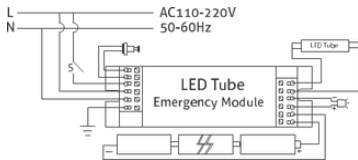
# COMPARE

	AEL-B100	AEL-B200	AEL-B300	AEL-B400	AEL-B800	AEL-B1000	AEL-B1800
<b>Applicable LED Power</b>	4W	10W	15W	20W	40W	50W	100W
<b>LED Driver</b>	external	internal					
<b>Input Voltage</b>	220-240 V AC						
<b>Output Voltage</b>	10-90V DC	220-320 AC					
<b>Operating Temp C</b>	25 below 0 to 70						
<b>Emergency Time</b>	2 hrs						
<b>Start- Up Charging Time</b>	24 hrs						
<b>Brightness Factor</b>	100%						
<b>Protection Device</b>	Over-Charge, Discharge and Short Circuit Protection						
<b>LED Indicator &amp; Test Switch</b>	yes						
<b>Modules Lifetime</b>	500 charging cycle						
<b>Battery Type/Capacity</b>	LifePO4 6.4V 1500mAh	LifePO4 12.8V 2000mAh	LifePO4 12.8V 3000mAh	LifePO4 12.8V 4000mAh	LifePO4 12.8V 8000mAh	LifePO4 12.8V 10000mAh	LifePO4 12.8V 18000mAh
<b>Dimention (LxWxH)</b>	200*100* 30 mm	200L*100W*40H			300L*100 W*40H	260L×105W×110H	
<b>Weight (g)</b>	500 g	800 g	1300 g		2050 g	3050g	3500g
<b>Compliance &amp; Standard</b>	EN61347-2-13:2006 EN61347-1:2008 A1:1011 A2:2013 EN55015:2013 EN61547:2009 EN61000-3-2:2006 A2:2009 EN61000-3-3:2013						
<b>Waranty (years)</b>	3 years						

# AEL-B100



Wiring Diagram



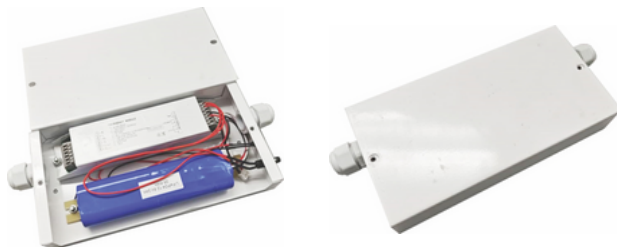
- Compact Design
- Lumen output 140lm
- LifePO4 6.4V 1500mAh
- Working temperature : -5~40



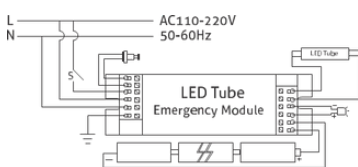
## Technical Specifications

MODEL NO :	AEL-B100
Applicable LED Power :	4W
LED Driver :	External
Input Voltage :	220-240 V AC
Output Voltage :	10-90V
Operating Temp C :	25 below 0 to 70
Emergency Time :	2 hrs
Start- Up Charging Time :	24 hrs
Brightness Factor :	100%
Protection Device :	Over-Charge, Discharge and Short Circuit Protection
LED Indicator & Test Switch :	Yes
Modules Lifetime :	500 charging cycle
Battery Type/Capacity :	LifePO4 6.4V 1500mAh
Dimension (LxWxH) in mm :	200Lx100Wx30H
Weight (g) :	500 g
Compliance & Standard :	EN61347-2-13:2006 EN61347-1:2008 A1:2011 A2 :2013 EN55015:2013 EN61547:2009 EN61000-3-2:2006 A2:2009 EN61000-3-3:2013
Waranty (years) :	3 years

# AEL-B200



Wiring Diagram



- Compact Design
- Lumen output 140lm
- LifePO4 12.8V 2000mAh
- Working temperature : -5~40

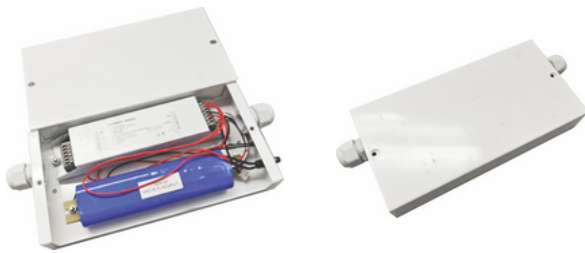


## Technical Specifications

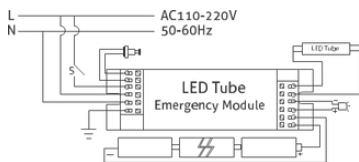
MODEL NO :	AEL-B200
Applicable LED Power :	10W
LED Driver :	Internal
Input Voltage :	220-240 V AC
Output Voltage :	220-320V
Operating Temp C :	25 below 0 to 70
Emergency Time :	2 hrs
Start- Up Charging Time :	24 hrs
Brightness Factor :	100%
Protection Device :	Over-Charge, Discharge and Short Circuit Protection
LED Indicator & Test Switch :	Yes
Modules Lifetime :	500 charging cycle
Battery Type/Capacity :	LifePO4 12.8V 2000mAh
Dimension (LxWxH) in mm :	200Lx100Wx40H
Weight (g) :	800 g
Compliance & Standard :	EN61347-2-13:2006 EN61347-1:2008 A1:2011A2 :2013 EN55015:2013 EN61547:2009 EN61000-3-2:2006 A2:2009 EN61000-3-3:2013
Waranty (years) :	3 years



# AEL-B300



Wiring Diagram



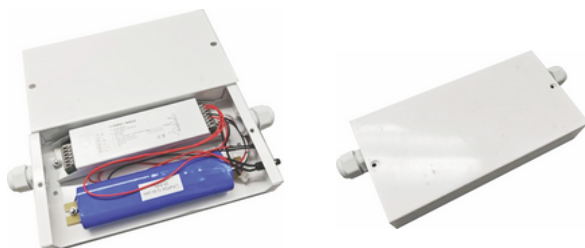
- Compact Design
- Lumen output 140lm
- LifePO4 12.8V 3000mAh
- Working temperature : -5~40



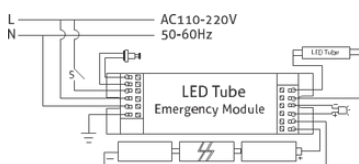
## Technical Specifications

MODEL NO :	AEL-B300
Applicable LED Power :	15W
LED Driver :	Internal
Input Voltage :	220-240 V AC
Output Voltage :	220-320V
Operating Temp C :	25 below 0 to 70
Emergency Time :	2 hrs
Start- Up Charging Time :	24 hrs
Brightness Factor :	100%
Protection Device :	Over-Charge, Discharge and Short Circuit Protection
LED Indicator & Test Switch :	Yes
Modules Lifetime :	500 charging cycle
Battery Type/Capacity :	LifePO4 12.8V 3000mAh
Dimension (LxWxH) in mm :	200Lx100Wx40H
Weight (g) :	1300 g
Compliance & Standard :	EN61347-2-13:2006 EN61347-1:2008 A1:1011A2:2013 EN55015:2013 EN61547:2009 EN61000-3-2:2006 A2:2009 EN61000-3-3:2013
Waranty (years) :	3 years

# AEL-B400



Wiring Diagram



- Compact Design
- Lumen output 140lm
- LifePO4 12.8V 4000mAh
- Working temperature : -5~40



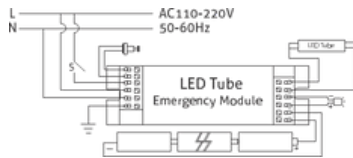
## Technical Specifications

MODEL NO :	AEL-B400
Applicable LED Power :	20W
LED Driver :	Internal
Input Voltage :	220-240 V AC
Output Voltage :	220-320V
Operating Temp C :	25 below 0 to 70
Emergency Time :	2 hrs
Start- Up Charging Time :	24 hrs
Brightness Factor :	100%
Protection Device :	Over-Charge, Discharge and Short Circuit Protection
LED Indicator & Test Switch :	Yes
Modules Lifetime :	500 charging cycle
Battery Type/Capacity :	LifePO4 12.8V 4000mAh
Dimension (LxWxH) in mm :	200Lx100Wx40H
Weight (g) :	1300 g
Compliance & Standard :	EN61347-2-13:2006 EN61347-1:2008 A1:1011A2:2013 EN55015:2013 EN61547:2009 EN61000-3-2:2006 A2:2009 EN61000-3-3:2013
Waranty (years) :	3 years

# AEL-B800



Wiring Diagram



- Compact Design
- Lumen output 140lm
- LifePO4 12.8V 8000mAh
- Working temperature : -5~40



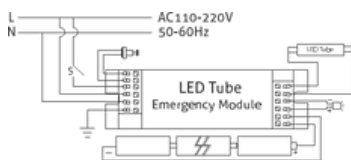
## Technical Specifications

MODEL NO :	AEL-B800
Applicable LED Power :	40W
LED Driver :	Internal
Input Voltage :	220-240 V AC
Output Voltage :	220-320V
Operating Temp C :	25 below 0 to 70
Emergency Time :	2 hrs
Start- Up Charging Time :	24 hrs
Brightness Factor :	100%
Protection Device :	Over-Charge, Discharge and Short Circuit Protection
LED Indicator & Test Switch :	Yes
Modules Lifetime :	500 charging cycle
Battery Type/Capacity :	LifePO4 12.8V 8000mAh
Dimension (LxWxH) in mm :	300Lx100Wx40H
Weight (g) :	2050 g
Compliance & Standard :	EN61347-2-13:2006 EN61347- 1:2008 A1:1011A2:2013 EN55015:2013 EN61547:2009 EN61000-3-2:2006 A2:2009 EN61000-3-3:2013
Waranty (years) :	3 years

# AEL-B1000



Wiring Diagram



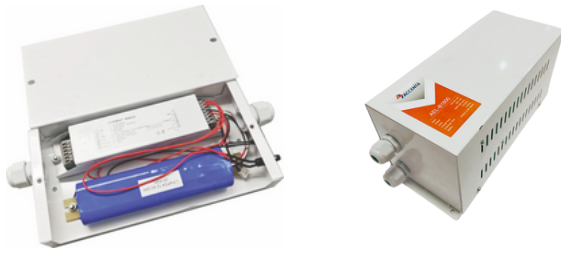
- Compact Design
- Lumen output 140lm
- LifePO4 12.8V 10000mAh
- Working temperature : -5~40



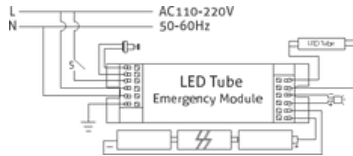
## Technical Specifications

MODEL NO :	AEL-B1000
Applicable LED Power :	50W
LED Driver :	Internal
Input Voltage :	220-240 V AC
Output Voltage :	220-320V
Operating Temp C :	25 below 0 to 70
Emergency Time :	2 hrs
Start- Up Charging Time :	24 hrs
Brightness Factor :	100%
Protection Device :	Over-Charge, Discharge and Short Circuit Protection
LED Indicator & Test Switch :	Yes
Modules Lifetime :	500 charging cycle
Battery Type/Capacity :	LifePO4 12.8V 10000mAh
Dimension (LxWxH) in mm :	260Lx105Wx110H
Weight (g) :	3050g
Compliance & Standard :	EN61347-2-13:2006 EN61347- 1:2008 A1:1011A2:2013 EN55015:2013 EN61547:2009 EN61000-3-2:2006 A2:2009 EN61000-3-3:2013
Waranty (years) :	3 years

# AEL-B1800



Wiring Diagram



- Compact Design
- Lumen output 140lm
- LifePO4 12.8V 18000mAh
- Working temperature : -5~40



## Technical Specifications

MODEL NO :	AEL-B1800
Applicable LED Power :	100W
LED Driver :	Internal
Input Voltage :	220-240 V AC
Output Voltage :	220-320V
Operating Temp C :	25 below 0 to 70
Emergency Time :	2 hrs
Start- Up Charging Time :	24 hrs
Brightness Factor :	100%
Protection Device :	Over-Charge, Discharge and Short Circuit Protection
LED Indicator & Test Switch :	Yes
Modules Lifetime :	500 charging cycle
Battery Type/Capacity :	LifePO4 12.8V 18000mAh
Dimention (LxWxH) in mm :	260L×105W×110H
Weight (g) :	3500g
Compliance & Standard :	EN61347-2-13:2006 EN61347- 1:2008 A1:1011A2:2013 EN55015:2013 EN61547:2009 EN61000-3-2:2006 A2:2009 EN61000-3-3:2013
Waranty (years) :	3 years



# BUILDING AUTOMATION SYSTEM EMERGENCY LIGHTING MONITORING

## Exploring Integrate with Management System

- Enhanced management and maintenance for integrating emergency lighting with management system.
- Offers a more unified and effective in managing emergency devices within the building.
- An user-friendly approach for effective upkeep of emergency devices.

## How GC KNX System Works?

GC KNX system is seamlessly connected to a singular server, offering comprehensive insights into each device, such as lamps and batteries.

Every **DALI device** is easily monitored and displayed in real-time by operators, providing instant information on every situation and device status.

- Eg, Device 4 in Zone 1, Ground Floor is faulty, the operator will receive a notification on this matter and attend to it as soon.

## BENEFITS of GREENCONTROLS EMERGENCY LIGHTING MONITORING SYSTEM

- Efficiency installation
- Monitoring
- Detail & Precision Information
- Integration & Centralized One
- Control
- Maintenance & Troubleshooting

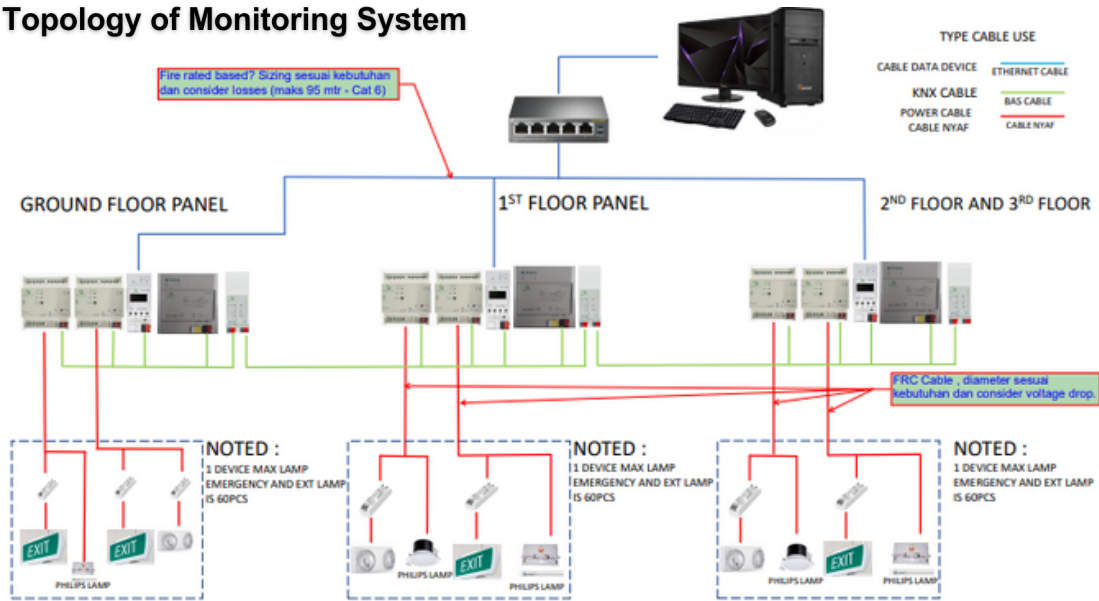
## GC KNX Advantages

- **Effortless Monitoring:** Easily view device information, including accurate data on battery indicators, health, and on/off status of lamps.
- **Time Efficiency:** Avoid the tedious task of individually checking each device. Monitoring saves time, especially crucial for emergency situations.
- **Unified Control:** Easily switch devices on/off from the operator room with a single control interface.
- **Efficient Maintenance:** Simplifies troubleshooting by aiding engineers in identifying problematic devices through monitoring data.
- **Preventive Alerts:** Receive early warnings about low battery levels, ensuring devices are standby-ready before emergencies, avoiding disruptions.
- **Seamless Integration:** Enables seamless integration, offering unified control and comprehensive monitoring for efficient operations and timely maintenance.

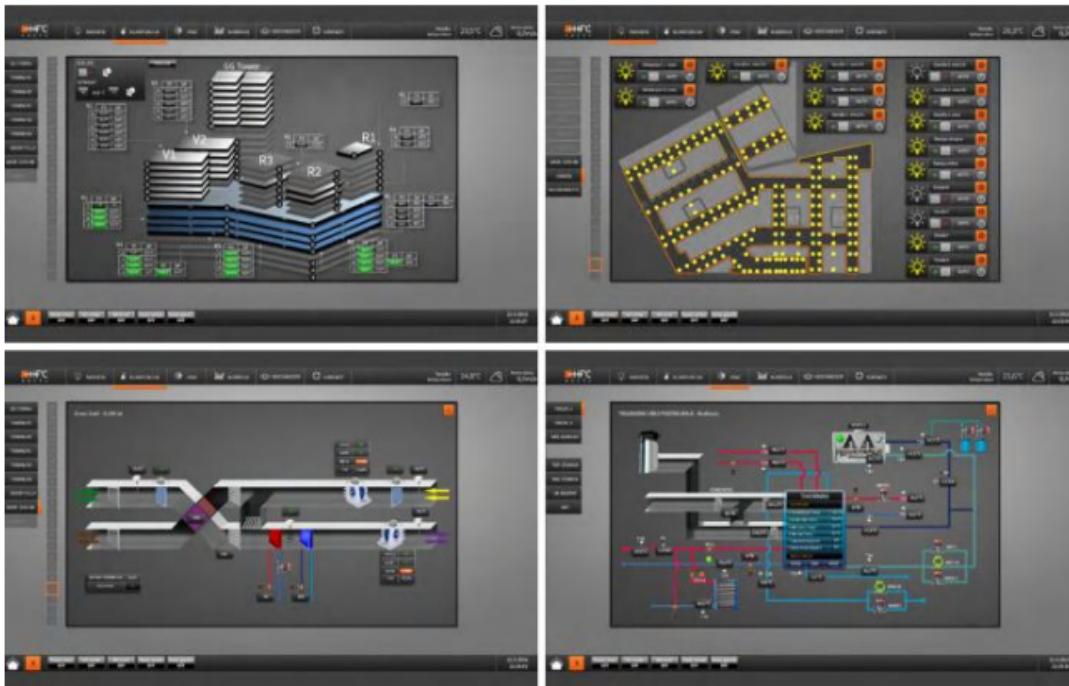
## MONITOR & CONTROL

- Lamp Indicator (On/Off Status)
- Battery Indicator (Level Status)
- Zoning
- ISpecific Information (Trouble Shooting)

## Topology of Monitoring System



## NetX Interface



## NetX Integration with DALI

- Extension module for NETx BMS Platform
- Provides manufacturer-independent view of KNX/DALI gateways
- Uniform data point view
- Triggering DALI tests
- Show common DALI errors and error for each device separately
- Support for DALI emergency tests
- Stores test results in SQL database
- Reporting tool for generating customized reports
- Automatic export from ETS5 using NETx BMS App Secure
- Support for multiple KNX/DALI gateways: ABB, Gira, Hager, IPAS, Jung, MDT, Schneider, Siemens, Zennio, EAE, ...

La	LaMPS		
La	DALI		
La	BuildingA		
La	Floor1		
La	My DALI Gateway		
o	Fault General	Fault General	True
o	Fault DALI	Fault DALI (4/22)	False
o	Fault Device	Fault Device (3/23)	True
o	Fault Lamps	Fault Lamps (5/24)	False
o	Trigger Test	Trigger Test	
o	Test Running	Test Running	False
La	Device1		
o	Fault	Displays if any fault occurred	True
o	Fault Lamp	Fault Lamp	False

# DESIGN OF EMERGENCY ESCAPE LUMINAIRE INSTALLATION

## What is Emergency Lights Standard.

Emergency Lighting Standards seek to provide visual conditions which make safe and timely evacuation possible while simultaneously curtailing panic. Safeguards for emergency management are vital in areas to which either the public or workers have access. Recommendations for specific luminaires such as exit signs and other sources of guidance, as well as the installation, operation, and testing of these, are outlined. These standards also address design principles that account for optimal placement, energy use, and possibility of electrical supply failure during emergencies. Emergency lighting is lighting for an emergency situation when the main power supply is cut and any normal illumination fails. The loss of mains electricity could be the result of a fire or a power cut and the normal lighting supplies fail. This may lead to sudden darkness and a possible danger to the occupants, either through physical danger or panic.

Emergency lighting falls into two categories :

### 1. Escape Lighting

This illuminates exit routes and open areas. Summary:

- Exit routes must be clearly lit and signed to ensure people can evacuate the building safely.
- Open area lighting is designed to reduce confusion and panic, whilst ensuring visibility of the nearest exit route. Escape lighting also enables employees to shut down sensitive or potentially dangerous processes before evacuating the building.

### 2. Standby lighting

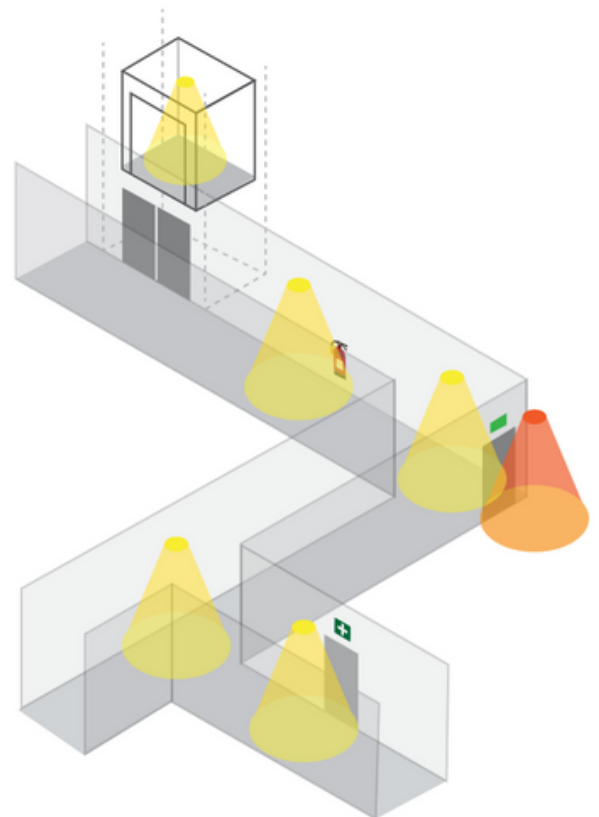
Standby lighting allows normal activities to continue if the main lighting fails for any reason. An application such as an operating theatre or an air traffic control centre would require standby lighting.

### Emergency lighting must:

- Indicate clearly and unambiguously the escape routes.
- Provide illumination along such routes to allow safe movement towards and through the exits provided.
- Ensure that fire alarm call points and fire fighting equipment provided along the escape routes can be readily located.
- Permit operations concerned with safety measures

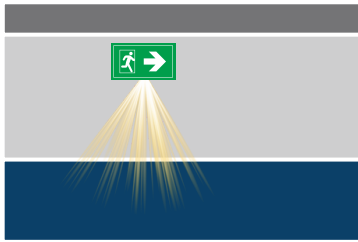
### Point of Emphasis of Emergency Lighting Scheme

- Stairs so that each flight receives direct light
- Changes in level
- Changes of escape route direction
- Corridor intersections
- First aid posts
- Fire alarm call points or pieces of fire fighting equipment
- External areas in the immediate vicinity of final exits
- Moving stairways and walkways
- Motor generator, control and plant rooms
- Lift cars
- Covered car parks
- Areas of refuge
- Toilet facilities exceeding 8m<sup>2</sup> or any multiple closet facility without borrowed light
- All other areas as deemed by the Risk Assessment





# EXIT SIGNS

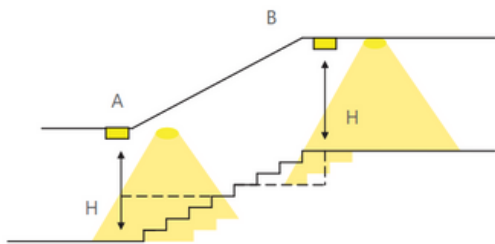


These are visible at all points along the escape route. Combinational signs provide both an internally illuminated exit and a usable downward light element. They may be suitable to replace some luminaires which have been previously placed.

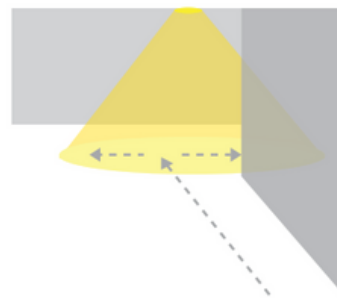


- Key:
- Exit lighting
  - Call point
  - Fire extinguisher
  - Fire alarm panel
  - Refuge area

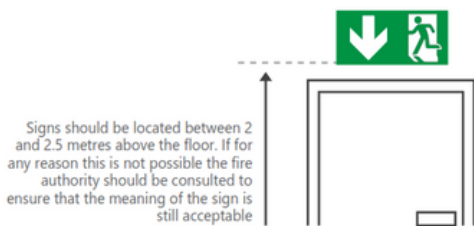
## Near Stairs or any other change of level



## Near changes of direction of corridors

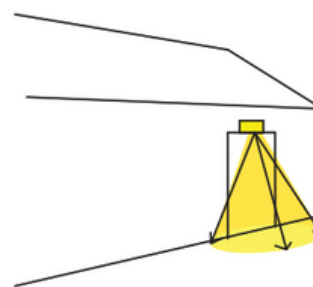


## Illuminate Exit and other safety signs

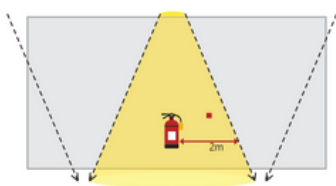


Signs should be located between 2 and 2.5 metres above the floor. If for any reason this is not possible the fire authority should be consulted to ensure that the meaning of the sign is still acceptable

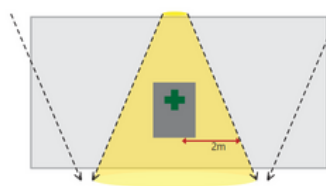
## Outside and near to exits



## Near fire fighting equipment and call points



## Near first aid post





## Unair Syariah

Airlangga Sharia & Entrepreneurship Education Center (ASEEC) Tower or Gedung Syariah Tower UNAIR as it has long been known, is a multipurpose building. The emergence of ASEEC Tower is a form of UNAIR's support for the activities of the entire academic community, and is also a unique landmark of UNAIR.



## PT Hisamitsu Pharma

Established in 1975, PT Salompas Indonesia continues to participate in improving the health of the Indonesian people through its products. In 2003 PT Salompas Indonesia changed their name to PT Hisamitsu Pharma Indonesia.



## PT Lesaffre Sari Nusa

Lesaffre Group established Saf Indonusa as a subsidiary to provide innovative roasting solutions in Indonesia. Roasting solutions include high-quality yeast, premixes, bread developers, and baking ingredients.

Museum Nasional Indonesia  
Shell Gas Station  
Rusun Menteng  
Showroom Bquick  
Restaurant Hokben  
AKR BP  
Tripari Warehouse  
Mandiri Denpasar  
PT. Lesaffre Sari Nusa  
PAL BMPP Kolaka  
Best Mansion Apartmen  
RSUD Mojokerto  
RS Darmayu Madiun

SPP POS Jakarta Timur  
Univ. Esa Unggul  
Buint Batu School NTB  
Mandiri Wijaya Kusuma  
Equinix Data Center  
RS Port Medikal Center  
Adhi Persada Group  
Unair Syariah Tower  
Pelindo Place  
RKZ Surabaya  
Pusat Grosir Surabaya  
PT. Suntory Garuda  
Hotel Crown Prince

Super Steel Karawang  
Infineon Batam  
Craze Indonesia  
Indonakano  
Mekar Armada Jaya  
Ariobimo Data Center  
Santos Jaya Abadi (Kapal Api)  
PT. Hisamitsu Pharma  
Kyo society apartmen  
Hotel Meurorah  
RSUD Srengat Blitar  
RS Siti Khodijah  
PT. Trias Spunindo







  
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