



**EMERGENCY LIGHTING**  
**BATTERY STATIONARY**  
**BATTERY NICKEL CADMIUM**



**THE TRUSTWORTHY**

**ENERGY CELL**



# COMPANY PROFILE



## ประวัติบริษัท

พาวเวอร์สเตชัน ก่อตั้งขึ้นโดย ทีมวิศวกรที่ได้รับการรับรองคุณภาพจาก สภาวิศวกรไทย ทีมวิศวกรของ พาวเวอร์สเตชัน มีประสบการณ์มากกว่า 10 ปี ในด้าน

- การติดตั้ง และทดสอบแบตเตอรี่อย่างมีประสิทธิภาพ
- การติดตั้ง และใช้งานไฟฉุกเฉินอย่างมีประสิทธิภาพ
- การให้คำปรึกษาและออกแบบ ไฟฟ้ากำลังของบ้านอยู่อาศัยและอาคารสำนักงานต่าง ๆ
- การแก้ไขปัญหาด้านไฟฟ้าต่าง ๆ รวมถึง งานไฟฟ้าของตู้ไอซ์สินค้า

พาวเวอร์สเตชัน ดำเนินธุรกิจโดยให้ความสำคัญอย่างยิ่งต่อ

- การเรียนรู้ความต้องการของลูกค้าแต่ละรายอย่างแท้จริง และการตอบสนองความต้องการนั้น ๆ อย่างมีประสิทธิภาพ
- คุณภาพของสินค้า และบริการ
- ความซื่อสัตย์ต่อลูกค้า และ
- การพัฒนาศักยภาพบุคลากรอย่างไม่หยุดยั้ง

ดังนั้น สินค้าและบริการของ พาวเวอร์สเตชัน จึงได้รับความไว้วางใจจาก หน่วยงานราชการ และบริษัทเอกชนชั้นนำของประเทศไทย เช่น

- กองทัพบก, กองทัพเรือ และกองทัพอากาศ
- บริษัท ทีโอที จำกัด (มหาชน)
- บริษัท กสท โทรคมนาคม จำกัด (มหาชน)
- การไฟฟ้านครหลวง
- กระทรวงวิทยาศาสตร์เทคโนโลยี และสิ่งแวดล้อม
- โรงงานยาสูบ กระทรวงการคลัง
- บริษัท ปตท จำกัด (มหาชน)
- บริษัท อสมท จำกัด (มหาชน)
- ธนาคารกรุงเทพ จำกัด (มหาชน)
- ธนาคารพัฒนาวิสาหกิจขนาดกลาง และขนาดย่อมแห่งประเทศไทย
- เดอะมอลล์ กรุ๊ป
- บริษัท แอดวานซ์อินโฟเซอร์วิส จำกัด (มหาชน)
- เดอะไนน์เตอร์ กรุ๊ป (เดอะพิกซาคัมปานี)
- เมืองทองธานี
- เมืองไทยภัทร คอมเพล็กซ์
- เมโทร กรุ๊ป
- ซีพี ออลล์ (เซเว่น – อีเลฟเว่น)
- ไทยประกันชีวิต

## COMPANY PROFILE

PowerStation is a well recognized and dynamic professional services organisation in electrical engineering. It is established from a team of certified engineers with over 10 years experience. PowerStation working with clients nationwide on a wide range of projects:

- Battery testing and installation
- Emergency light use and installation
- Electrical consultant and design (residential and commercial)
- Electrical solution – including electrical issues for display unit

PowerStation's Oaths are:

- Learning and satisfying Individual customer preferences
- Quality of products and services
- Honesty to customers
- Human Resources Development

PowerStation is trusted by Thailand leading public organisations and private enterprises:

- Royal Thai Defence Forces: Army, Air Force and Navy
- TOT Public Company Limited (TOT)
- CAT Telecom Public Company Limited (CAT)
- Metropolitan Electricity Authority (MEA)
- Ministry of Science and Technology
- Thailand Tobacco Monopoly, Ministry of Finance
- Petroleum Authority of Thailand (PTT)
- MCOT Public Company Limited
- Bangkok Bank Public Company Limited
- Small and Medium Enterprise Development Bank of Thailand (SME Bank)
- The Mall Group
- Advanced Info Services Public Company Limited (AIS)
- The Minor Group (The Pizza Company)
- Muang Thong Thani
- Muang Thai Phatra Complex
- Betago Group
- CP ALL (7-Eleven)
- Muang Thai Life Assurance Company Limited



# SELF-CONTAINED EMERGENCY LIGHTING

## EMERGENCY LIGHT **buā** Micro Controller

### Specification

- Mode of Operation** : Non-Maintained
- Lamp** : Tungsten Halogen (35W or 55W) or Dichroic Halogen (35W or 50W) with 180° adjustable sets and plastic anti-dust
- Main Supply** : AC 220 Volt, 50 Hz, ±10% Single Phase
- Control System** : 8 bit Micro Controller Unit (MCU) with solid state automatic battery charger full function low / high charge and discharge, low / high voltage cut-off preventing battery defects
- Construction** : FRONT COVER – ABS or Electro-Galvanized steel sheet 1 mm. with epoxy powder and stove enamel coated anti-rust corrosion proof are optional.  
: BACK COVER – Electro-Galvanized steel sheet 1 mm. with epoxy powder and stove enamel coated anti-rust corrosion proof
- Battery** : Sealed lead acid battery, Based on ISO 9001 : 2000 certified, CE and UL
- Charging Period** : 10-24 Hours as required
- Manual Test** : Push Button and Infrared Remote Control as below features:

Function Test	Status	L.E.D.
Normal	5 seconds discharge	Red
Monthly	30 minutes discharge	
Half Year	60 minutes discharge	
Fail to Test	Flashing	

**Automatic Test** : Real time clock – setting with 8 bit MCU

Function Test	Exercise Status – Selectable
1 Week	15, 30, 60, 90 and 120 minutes
2, 4, 6, 8 Weeks	
12 Weeks	
24 Weeks	

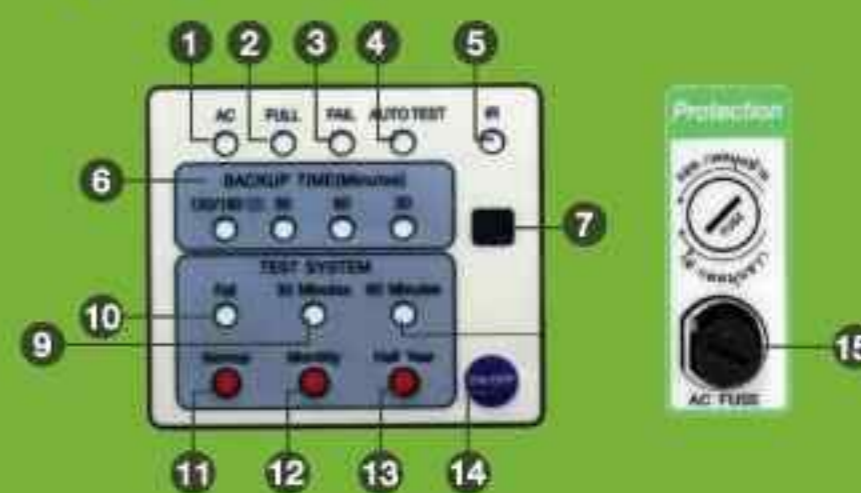
**Safety Features** :

- Low – High voltage cut-off, preventing battery over discharge and recharge
- AC fuse – preventing short circuit and overload for main incoming AC 220 Volt
- DC fuse – preventing short circuit and overload for charging

**Accessories** :

- On / Off switch for lamps
- LED AC indicates main incoming AC 220 Volt
- LED FULL indicates charging, discharging and fully charge
- LED FAIL indicates fail to charge
- LED AUTO – TEST indicates fully automatic functional
- LED IR indicates infrared remote test functional
- Time Delay 1 up to 10 minutes

### Emergency lighting indicators



- 1. AC** : Main incoming AC 220 Volt
- 2. FULL or CHARGE / FULL** : Charging, and fully charged (LED CHARGE / FULL are optional)
- 3. FAIL** : Fail to charge
- 4. AUTO TEST** : Fully automatic functional
- 5. IR** : Infrared remote test functional
- 6. BACKUP TIME (Minutes)** : Record latest duration time
- 7. IR RECEIVER** : Infrared receiver signal port
- 8. 60 minutes Test** : Half year push button status
- 9. 30 minutes Test** : Monthly push button status
- 10. Fail (TEST SYSTEM)** : Fail to test half year and monthly status
- 11. Normal Test** : Test battery 5 seconds discharge
- 12. Monthly Test** : Test battery 30 minutes discharge
- 13. Half Year Test** : Test battery 60 minutes discharge
- 14. On / Off switch** : Switch on / off for lamps
- 15. AC FUSE** : Preventing short circuit and overload for main incoming AC 220 Volt



## Emergency Light **IIUU** Micro Processor ( PWM Series )

Model	Battery	Duration (Hrs. Mins.) ± 10%			Dimension approx. (mm.)			Weight approx. (Kgs.)
		2 x 35W.	2 x 50W.	2 x 55W.	Width	Length	Height	
PWM 15	12V. 15AH.	2.00	1.25	1.15	110	370	335	7.70
PWM 18	12V. 18AH.	2.25	1.40	1.30				8.80
PWM 21	12V. 21AH.	2.50	2.00	1.45				9.90
PWM 23	12V. 24AH.	3.15	2.15	2.00				10.60
PWM 26	12V. 26AH.	3.30	2.30	2.15	165			12.60
PWM 35	12V. 35AH.	4.45	3.20	3.00				15.00
PWM 40	12V. 15AH.	5.00	3.50	3.30				19.90



# SELF-CONTAINED EMERGENCY LIGHTING



## EMERGENCY LIGHT

### Specification

**Mode of Operation** : Non-Maintained

**Lamp** : Tungsten Halogen (20W, 35W or 55W) or Dichroic Halogen, (5W, 20W, 35W or 50W) with 180° adjustable sets and plastic anti-dust

**Main Supply** : AC 220 Volt, 50 Hz, ±10% Single Phase

**Construction** : FRONT COVER – ABS or Electro-Galvanized steel sheet 1 mm, with epoxy powder and stove enamel coated anti-rust corrosion proof are optional.  
: BACK COVER – Electro-Galvanized steel sheet 1 mm, with epoxy powder and stove enamel coated anti-rust corrosion proof

**Battery** : Sealed lead acid battery, Based on ISO 9001 : 2000 certified, CE and UL

**Charger** : Solid state system automatic battery charger

**Charging Period** : 10-24 Hours as required

**Safety Features** : - Low – High voltage cut-off, preventing battery over discharge and recharge  
- AC fuse – preventing short circuit and overload for main incoming AC 220 Volt  
- DC fuse – preventing short circuit and overload for charging

**Remark** : LED CHARGE / FULL are optional



Dichroic Halogen



Round Tungsten Halogen



Rectangle Tunsten Halogen

### Emergency Light IIUU Self Contained (PW Series )

Model	Battery	Duration (Hrs:Mins) ± 10%					Dimension approx. (mm.)			Weight approx.(Kgs.)
		2 x 5W.	2 x 20W.	2 x 35W.	2x 50W.	2 x 55W.	Width	Length	Height	
PW - 04	6V. 4.5AH	2.10	-	-	-	-	70	220	125	2.00
PW - 07	12V. 7.2AH.	-	1.40	1.00	-	-	85	295	280	4.60
PW - 12	12V. 12AH.	-	2.50	1.35	-	-	110			5.80
PW - 15	12V. 15AH.	-	3.30	2.00	1.25	1.15	85	370	340	8.00
PW - 18	12V. 18AH.	-	-	2.25	1.40	1.30				8.10
PW - 21	12V. 21AH.	-	-	2.50	2.00	1.45	170	370	340	9.60
PW - 23	12V. 24AH.	-	-	3.15	2.15	2.00				10.00
PW - 26	12V. 26AH.	-	-	3.30	2.30	2.15	170	370	340	12.40
PW - 35	12V. 35AH.	-	-	4.45	3.20	3.00				14.20
PW - 40	12V. 40AH.	-	-	5.00	3.50	3.30	19.10			



## EXIT LIGHT

The Exit Light is decoratively designed for convenient operation with clear and bright in single or double side signs comply to E.I.T. and TIS. Standards.

### Specification

<b>Mode of Operation</b> :	Maintained	<b>Safety Features</b> :	- Low - High voltage cut-off, preventing battery over discharge and recharge - AC fuse - preventing short circuit and overload for main incoming input AC 220 Volt - DC fuse - preventing short circuit and overload for charging
<b>Lamp</b> :	Fluorescent or PL	<b>Legend</b> :	ISO Green, other legend optional are available
<b>Main Supply</b> :	AC 220 Volt, 50 Hz, ±10% Single Phase	<b>Mounting</b> :	Wall mounted or Ceiling mounted
<b>Construction</b> :	Electro-Galvanized steel sheet 1 mm. with epoxy powder and stove enamel coated anti-rust corrosion proof and ABS cover	<b>Remark</b> :	PWE-N series without battery charger, safety features and indicator display Legend on clear acrylic is available LED CHARGE / FULL are optional
<b>Battery</b> :	Sealed lead acid battery, Based on ISO 9001 : 2000 certified, CE and UL (Nickel cadmium battery are optional)		
<b>Charger</b> :	Solid state system automatic battery charger		
<b>Charging Period</b> :	10-24 Hours as required		



RECESS TYPE      CEILING TYPE  
**PWE - 303**



BOX TYPE ( PWE 111-112 PL/FL )

### Exit Light มาตรฐาน FL และ PL รุ่นมีแบตเตอรี่ ( PWE-N Series )

Model	Side	Bulbs	Dimension approx. (mm.)			Weight approx. (Kgs.)
			Width	Length	Height	
PWE-N 111 FL	1	1 x 10W. FL	120	500	190	2.9
PWE-N 112 FL	2					
PWE-N 303 SFL	1		80	370	110	4.2
PWE-N 303 TFL	2					
PWE-N 211 FL	1	1 x 18W. FL	80	740	220	4.6
PWE-N 212 FL	2					
PWE-N 111 PL	1	1 x 11W. PL	120	500	190	2.9
PWE-N 112 PL	2					
PWE-N 303 SPL	1		80	370	110	4.2
PWE-N 303 TPL	2					

### STANDARD LEGEND



### Exit Light มาตรฐาน FL และ PL ( PWE Series )

Model	Side	Battery	Bulbs	Duration ± 10% (Hrs:Mins)	Dimension approx. (mm.)			Weight approx. (Kgs.)
					Width	Length	Height	
PWE 111 FL	1	6V. 4.5Ah. Sealed Lead Acid (Nickel Cadmium are optional)	1 x 10W. FL	2.00	120	500	190	3.5
PWE 112 FL	2							
PWE 303 SFL	1				80	370	110	4.8
PWE 303 TFL	2							
PWE 121 FL	1		2 x 10W. FL		120	500	190	4.1
PWE 122 FL	2							
PWE 211 FL	1		1 x 18W. FL		80	740	220	5.2
PWE 212 FL	2							
PWE 111 PL	1		1 x 11W. PL		120	500	190	3.5
PWE 112 PL	2							
PWE 303 SPL	1				80	370	110	4.8
PWE 303 TPL	2							
PWE 121 PL	1		2 x 11W. PL		120	500	190	4.1
PWE 122 PL	2							



# EXIT LIGHT **ကော့** LED



PWE 111-112 LED



PWE 303 X-LED



## Specification

**Mode of Operation** : Maintained

**Lamp** : LED

**Main Supply** : AC 220 Volt, 50 Hz, ±10% Single Phase

**Construction** : Electro-Galvanized steel sheet 1 mm. with epoxy powder and stove enamel coated anti-rust corrosion proof or ABS casing

**Battery** : Nickel Metal Hydride Battery, High Temperature type

**Charger** : Solid state system automatic battery charger

**Charging Period** : 10-24 Hours as required

## Safety Features

- Low – High voltage cut-off, preventing battery over discharge and recharge
- AC fuse – preventing short circuit and overload for main incoming input AC
- DC fuse – preventing short circuit and overload for charging

## Legend

: ISO Green, other legend options are available

## Mounting

: Wall mounted or Ceiling mounted

## Remark

: LED CHARGE / FULL are optional

### Exit Light **ကော့** LED ( PWE Series )

Model	Side	Battery	Bulbs	Duration ± 10% (Hrs:Mins)	Dimension approx. (mm.)			Weight approx. (Kgs.)
					Width	Length	Height	
PWE 111 LED	1	3.6V.	40 LED	3.00	38	380	180	1.0
PWE 112 LED	2	1,800mAh.	(White)		43			1.2
PWE 303 S - LED	1	Nickel Metal Hydride	24 LED		80	390	45	1.6
PWE 303 T - LED	2		(White)					



PWE - WBI



PWE - FBI



## EXIT LIGHT **ကော့** LED

### Specification

**Mode of Operation** : Maintained

**Lamp** : LED

**Lamp life time** : 100,000 hours

**Main Supply** : AC 220 Volt, 50 Hz, ±10% Single Phase

**Construction** : Cover Toughened glass sheet 10 mm.  
: Stainless steel frame  
: High-grade aluminum ingot back box  
: Thickened silicon rubber glue  
: High-grade waterproof

**Battery** : Nickel Metal Hydride Battery, High Temperature type

## Charger

: Solid state system automatic battery charger

## Charging Period

: 10-24 Hours as required

## Safety Features

- Low – High voltage cut-off, preventing battery over discharge and recharge
- AC fuse – preventing short circuit and overload for main incoming input AC
- DC fuse – preventing short circuit and overload for charging

## Legend

: ISO Green, other legend options are available

## Mounting

: Wall Built-In or Floor Built-In

### Exit Light **ကော့** LED ( PWE Series )

Model	Side	Battery	Bulbs	Duration ± 10% (Hrs:Mins)	Dimension approx. (mm.)			Weight approx. (Kgs.)
					Width	Length	Height	
PWE - WBI	1	3.6V. 1,800mAh.	16 LED	3.00	60	300	180	2.6
PWE - FBI		NiMh.	(White)		Ø260			100



# POWER CENTRAL UNIT

## POWER CENTRAL UNIT

The Central Unit Emergency Light is centralize system for 12 – 24 VDC. Load that can install Remote Head Lamp in the wide and separate area.

### Specification

- Mode of Operation** : Non-Maintained
- Lamp** : Tungsten Halogen or Dichroic Halogen or Incandescent
- Main Supply** : AC 220 Volt, 50 Hz, ±10% Single Phase
- Construction** : Electro-Galvanized steel sheet 1 mm. with epoxy powder and stove enamel coated anti-rust corrosion proof and/or ABS cover
- Battery** : Sealed lead acid battery, Based on ISO 9001 : 2000 certified, CE and UL  
: Single cell – sealed lead acid battery (2 Volt)
- Charger** : Solid state system automatic battery charger
- Charging Period** : 10-24 Hours as required
- Safety Features** : - Low – High voltage cut-off, preventing battery over discharge and recharge  
- AC fuse – preventing short circuit and overload for main incoming AC 220 Volt  
- DC fuse – preventing short circuit and overload for charging  
- DC load fuse – preventing short circuit and overload for lamp load
- Accessories** : - LED "AC" indicates main incoming AC 220 Volt  
- LED "CHARGE" indicates Charging status (some model)  
- LED "BATTERY" indicates Battery status (some model)  
- LED "FULL" indicates Full battery status (CHARGE / FULL are optional)  
- LED "SHORT CIRCUIT" indicates Over charge  
- LED "LOAD 1-10" indicates On load status (some model)  
- DC Voltmeter indicates DC battery voltage (some model)  
- DC Ammeter indicates DC charge current (some model)



Power Central Unit with Micro Processor 12VDC. ( PWC-M Series )

Model	Load 12VDC. (Max. Watts.)	Battery (to be 12V.)	Duration ± 10% (Hrs:Mins)	Dimension approx. (mm.)		
				Width	Length	Height
PWC – M 15 - 12	70	12V. 15Ah.	2.00	110	370	335
PWC – M 18 - 12	85	12V. 18Ah.				
PWC – M 21 - 12	100	12V. 21Ah.				
PWC – M 23 - 12	110	12V. 24Ah.				
PWC – M 26 - 12	120	12V. 26Ah.		175		
PWC – M 35 - 12	160	12V. 35Ah.				
PWC – M 40 - 12	180	12V. 40Ah.				

Power Central Unit with Micro Processor 24VDC. ( PWC-M Series )

Model	Load 24VDC. (Max. Watts.)	Battery (to be 24V.)	Duration ± 10% (Hrs:Mins)	Dimension approx. (mm.)		
				Width	Length	Height
PWC – M 07 – 24	70	2x 12V. 7.2Ah.	2.00	175	370	335
PWC – M 12 – 24	110	2x 12V. 12Ah.				
PWC – M 15 – 24	140	2x 12V. 15Ah.				
PWC – M 21 – 24	200	2x 12V. 21Ah.				
PWC – M 23 – 24	220	2x 12V. 24Ah.				

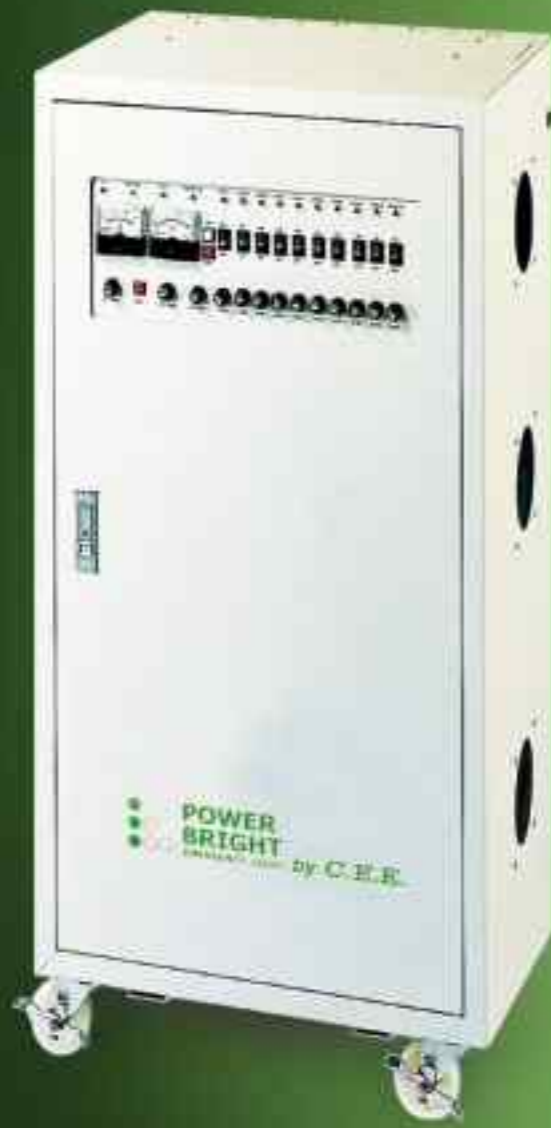
Power Central Unit 12VDC. ( PWC Series )

Model	Load for 12VDC. (Max. Watts.)	Battery (to be 12V.)	Terminal Output	Duration ± 10% (Hrs:Mins)	Dimension approx. (mm.)				
					Width	Length	Height		
PWC 07 – 12	35	1 x 12V. 7.2Ah.	1 point	2.00	90	295	170		
PWC 12 – 12	55	1 x 12V. 12Ah.			110				
PWC 15 – 12	70	1 x 12V. 15Ah.			85	370	240		
PWC 18 – 12	85	1 x 12V. 18Ah.							
PWC 21 – 12	100	1 x 12V. 21Ah.							
PWC 23 – 12	110	1 x 12V. 24Ah.							
PWC 26 – 12	125	1 x 12V. 26Ah.			165	370	240		
PWC 35 – 12	165	1 x 12V. 35Ah.							
PWC 40 – 12	190	1 x 12V. 40Ah.			5 point with DC. Volt. and DC. Amp. Meter	2.00	200	450	500
PWC 65 – 12	310	1 x 12V. 65Ah.							
PWC 78 – 12	370	1 x 12V. 78Ah.							
PWC 100 – 12	480	1 x 12V. 100Ah.							
PWC 120 – 12	575	1 x 12V. 120Ah.							
PWC 150 – 12	720	1 x 12V. 150Ah.							
PWC 200 – 12	960	1 x 12V. 200Ah.	10 point with DC. Volt. and DC. Amp. Meter	2.00	400	550	700		
PWC 240 – 12	1,150	2 x 12V. 120Ah.							
PWC 300 – 12	1,440	2 x 12V. 150Ah.							
PWC 400 – 12	1,920	2 x 12V. 200Ah.							



# POWER CENTRAL UNIT & POWER INVERTER

## Power Central Unit



### Power Central Unit 24VDC. ( PWC Series )

Model	Load for 24VDC. (Max. Watts.)	Battery (to be 24V.)	Terminal Output	Duration ± 10% (Hrs:Mins)	Dimension approx. (mm.)		
					Width	Length	Height
PWC 07 – 24	70	2 x 12V. 7.2Ah.	1 point	2.00	110	295	170
PWC 12 – 24	110	2 x 12V. 12Ah.			105	370	240
PWC 15 – 24	140	2 x 12V. 15Ah.			165		
PWC 18 – 24	170	2 x 12V. 18Ah.					
PWC 21 – 24	200	2 x 12V. 21Ah.			200	450	500
PWC 23 – 24	220	2 x 12V. 24Ah.	5 point with DC. Volt. and DC. Amp. Meter				
PWC 26 – 24	250	2 x 12V. 26Ah.	10 point with DC. Volt. and DC. Amp. Meter	2.00	400	550	700
PWC 35 – 24	330	2 x 12V. 35Ah.					
PWC 40 – 24	380	2 x 12V. 40Ah.					
PWC 65 – 24	620	2 x 12V. 65Ah.					
PWC 78 – 24	740	2 x 12V. 78Ah.			1,000		
PWC 100 – 24	960	2 x 12V. 100Ah.					
PWC 120 – 24	1,150	2 x 12V. 120Ah.					
PWC 150 – 24	1,440	2 x 12V. 150Ah.					
PWC 200 – 24	1,920	2 x 12V. 200Ah.					

## POWER INVERTER 220VAC. (HI-VOLT)

The Power Inverter 220VAC. (Hi-Volt) is centralize system for 24 or 48 VDC. Batteries Input through Inverter Unit built-up powered 220 VAC. Output

### Specification

**Mode of Operation** : Maintained or Non-Maintained

**Lamp** : Incandescent or Tungsten Halogen or Dichroic Halogen or Fluorescent or Compact Fluorescent

**Main Supply** : AC 220 Volt, 50 Hz, ±10% Single Phase

**AC Output** : AC 220 Volt, 50 Hz, 10% (Square Wave) For load 240 – 4,400 Watt

**Construction** : Electro-Galvanized steel sheet 1 mm. with epoxy powder and stove enamel coated anti-rust corrosion proof

**Battery** : Sealed lead acid battery, Based on ISO 9001 :2000 certified, UL and CE.  
: Single cell – sealed lead acid battery (2 Volt)

**Charger** : Solid state system automatic battery charger

**Charging Period** : 10-24 Hours as required

### Safety Features

- Low – High voltage cut-off, preventing battery over discharge and recharge
- Input AC Circuit Breaker – preventing short circuit and overload for main incoming AC 220 Volt
- Output Circuit Breaker – preventing short circuit and overload for Lamp load
- DC fuse – preventing short circuit and overload for charging

### Accessories

- LED "AC" indicates main incoming AC 220 Volt
- LED "BACK UP" indicates Backup status
- LED "FULL" indicates Full battery status
- LED "SHORT CIRCUIT" indicates Over charge
- On / Off Switch for on / off Emergency light
- AC Voltmeter indicates AC output voltage
- DC Voltmeter indicates DC battery voltage
- DC Ammeter indicates DC charge current

### Power Inverter 220VAC. ( PWI Series )

Model	Load for 220VAC. (Max.)		Battery	Duration ± 10% (Hrs:Mins)	Dimension approx. (mm.)		
	VA	Watts.			Width	Length	Height
PWI 300	300	240	2 x 12V. 26Ah. to be 24V. 26Ah.	2.00	200	450	500
PWI 500	550	440	4 x 12V. 24Ah. to be 24V. 48Ah.		400	550	700
PWI 700	750	600	2 x 12V. 65Ah to be 24V. 65Ah.				1,000
PWI 1000	1,050	840	2 x 12V 90Ah. to be 24V. 90Ah.				
PWI 1300	1,320	1,050	2 x 12V. 110Ah. to be 24V. 110Ah.		600	800	1,300
PWI 1500	1,550	1,240	4 x 12V. 65Ah. to be 24V. 130Ah.				
PWI 2000	2,100	1,680	4 x 12V. 90Ah. to be 24V. 180Ah.		600	800	1,600
PWI 2500	2,600	2,080	4 x 12V. 110Ah. to be 48V. 110Ah.				
PWI 3000	3,100	2,480	8 x 12V. 65Ah. to be 48V. 130Ah.				
PWI 3500	3,600	2,880	4 x 12V. 150Ah. to be 48V. 150Ah.				
PWI 4000	4,300	3,440	8 x 12V. 90Ah. to be 48V. 180Ah.				
PWI 4500	4,800	3,840	4 x 12V. 200Ah. to be 48V. 200Ah.				
PWI 5000	5,500	4,400	4 x 12V. 230Ah. to be 48V. 230Ah.				





## POWER RELAY (TRANSFER RELAY)

The Power Relay Kit is designed for Maintained Normal 220 VAC. from main electricity supply and incoming emergency sources i.e. PWC 12 – 24 VDC. or PWI 220 VAC.

### Specification

**Mode of Operation :** Maintained

**Main Supply :** (1) AC 220 Volt, 50 Hz, ±10% Single Phase  
(2) DC 12 / 24 Volt or AC 220 Volt from PWC / PWI Series product

**Output :** DC 12 / 24 Volt or AC 220 Volt

**Construction :** Electro-Galvanized steel sheet 1 mm. with epoxy powder and stove enamel coated anti-rust corrosion proof

### Power Relay (Transfer Relay) ( PWR Series )

Model	Load		Dimension approx. (mm.)			Weight approx. (Kgs.)
	Voltage	Amp. (Max)	Width	Length	Height	
PWR 12 DC	12VDC.	5	40	170	47	0.3
PWR 24 DC	24VDC.					
PWR 220 AC	220VAC.					



## POWER PACK (BATTERY PACK)

The Power pack Series are battery pack type designed for light fixture that need to recess independently.

PW-F for Fluorescent  
PW-PL for PL  
PW-PLL for PLL  
PW-PLC for PLC  
PW-D for Downlight

### Specification

**Mode of Operation :** Maintained

**Lamp :** Tungsten Halogen or Dichroic Halogen or Fluorescent or Compact Fluorescent

**Main Supply :** AC 220 Volt, 50 Hz, ±10% Single Phase

**Construction :** Electro-Galvanized steel sheet 1 mm. with epoxy powder and stove enamel coated anti-rust corrosion proof or Aluminum case

**Battery :** Sealed lead acid battery, Based on ISO 9001 : 2000 certified , UL and CE.

**Charger :** Solid state system automatic battery charger

**Charging Period :** 10-24 Hours as required

**Safety Features :** low – High voltage cut-off, preventing battery over discharge and recharge

### Power Pack (Battery Pack)

Model	Load		Battery	Duration ±10% (Hrs:Mins)	Dimension approx. (mm.)			Weight approx. (Kgs.)	
	Type	Watts.			Width	Length	Height		
PW-F10	Fluorescent	10	12V. 4.5Ah.	2.00	Control Unit = 47 Battery Unit = 75	Control Unit = 395 Battery Unit = 270	Control Unit = 45 Battery Unit = 55	Control Unit = 1.0 Battery Unit = 2.1	
PW-F20		18 - 20							
PW-F40		32 - 40							
PW-PL9	PL	9							
PW-PL11		11							
PW-PLL20	PL-L	20							
PW-PLL24		24							
PW-PLL40		40							
PW-PLC13	PL-C	13							
PW-PLC18		18							
PW-PLC26		26							
PW-D20	Halogen	20						1.50	Control Unit = 0.6 Battery Unit = 2.1
PW-D35		35						1.00	
PW-D50		50 - 55	0.45 - 0.40						





# REMOTE LAMP | Special Order



## REMOTE LAMP ( PWL Series )

REMOTE LAMP ( PWL Series )

Model	Bulbs Type	Lamp		Watts. per bulbs for 12 or 24 VDC.			
		Install Type	Number of bulbs.	20	35	50	55
PWL 110	Rectangle Tungsten Halogen	Wall Mounted	1	✓	✓	✗	✓
		Ceiling Mounted		✓	✓	✗	✓
PWL 120	Round Tungsten Halogen	Wall Mounted	1	✓	✓	✗	✓
		Ceiling Mounted		✓	✓	✗	✓
PWL 130	Square Dichroic Halogen	Wall Mounted	1	✓	✓	✓	✗
		Ceiling Mounted		✓	✓	✓	✗
PWL 210	Rectangle Tungsten Halogen	Wall Mounted	2	✓	✓	✗	✓
		Ceiling Mounted		✓	✓	✗	✓
PWL 220	Round Tungsten Halogen	Wall Mounted	2	✓	✓	✗	✓
		Ceiling Mounted		✓	✓	✗	✓
PWL 230	Square Dichroic Halogen	Wall Mounted	2	✓	✓	✓	✗
		Ceiling Mounted		✓	✓	✓	✗
PWL 309	Downlight	Ceiling	1	✓	✓	✓	✗

## SPECIAL ORDER



3 Face Fire Host -133 FL



Single Face Fire Host -111 FL



PWE 421-422 FL



PWE 121 FL & PWE 122 FL ( Extra Width )

## NiCd & NiMh Battery



NiCd 6V. 4.5 Ah.



NiMh 3.6 V. 1,800 mAh.



# Stationary Battery | Lead Acid Batteries

## Stationary Battery (EverExceed)

### Stationary Battery (EverExceed) ( AM/ST/MR Series )

Model	Capacity		Dimension approx. (mm.)			
	V.	AH.	Width	Length	Height	Total Height
AM 6 - 4.5	6	4.5	70	47	102	108
AM 6 - 5		5.0				
AM 6 - 8.5		8.5	98	56	118	118
AM 6 - 12		12				
AM 12 - 5		12	5.5	90	70	102
AM 12 - 7.0	7.0					
AM 12 - 7.2	7.2					
AM 12 - 7.5	7.5					
AM 12 - 8.5	8.5					
AM 12 - 9	9.0					
AM 12 - 12	12					
AM 12 - 15	15					
AM 12 - 18	18					
AM 12 - 22	22		181	76	167	167
AM 12 - 25	25					
AM 12 - 26	26		166	175	126	126
AM 12 - 28	28			126	175	175
ST - 1233	33			195	130	160
ST - 1240	40		197	165	172	172
ST - 1255	55	228	137	208	213	
ST - 1265	65	259	168	210	215	
ST - 1280	80					
ST - 1290	90	305	174	215	220	
ST - 12100	100					
ST - 12110	110					
ST - 12120	120	408	176	227	227	

Model	Capacity		Dimension approx. (mm.)			
	V.	AH.	Width	Length	Height	Total Height
ST - 12150	12	150	480	170	240	240
ST - 12200		200	520	240	220	225
MR 2 - 100	2	100	72	171	205	211
MR 2 - 120		120				
MR 2 - 150		150	106	330	336	
MR 2 - 200		200				
MR 2 - 250		250				
MR 2 - 300		300				
MR 2 - 400		400	173	210	336	
MR 2 - 500		500				
MR 2 - 600		600	171	241	336	
MR 2 - 700		700				
MR 2 - 800	800	175	410	336		
MR 2 - 1000	1,000					
MR 2 - 1250	1,250	350	482	336		
MR 2 - 1400	1,400					
MR 2 - 1500	1,500	400	345	351		
MR 2 - 1600	1,600					
MR 2 - 1800	1,800	490	345	351		
MR 2 - 2000	2,000					
MR 2 - 2500	2,500	710	345	351		
MR 2 - 3000	3,000					
MR 2 - 4000	3,000					

Remark : AM Series's capacities refer to 20 Hrs. Rate.  
ST and MR Series's capacities refer to 10 Hrs. Rate

## Lead Acid Batteries

### Lead Acid Batteries (Tubular Plate, OPzS)

Part Number	DIN TYPE	Normal Voltage (V.) To 1.80VPC	C10 AH	Dimension approx. (mm.)			Pole Pair
				Length	Width	Height	
12TS01050	12V 1 OPzS 50	12	50	275	385	1	
12TS02100	12V 2 OPzS 100		100				
12TS03150	12V 3 OPzS 150		150				
6TS04200	6V 4 OPzS 200	6	200	275	385	1	
6TS05250	6V 5 OPzS 250		250				
6TS06300	6V 6 OPzS 300		300				
2TS040100	2 OPzS 100	2	100	105	208	1	
2TS030150	3 OPzS 150		150				
2TS040200	4 OPzS 200		200				
2TS050250	5 OPzS 250		250	126	520	405	
2TS040300	6 OPzS 300		300	147			
2TS050350	5 OPzS 350		350	126			
2TS060420	6 OPzS 420		420	147			
2TS070490	7 OPzS 490		500	168	695	405	
2TS060600	6 OPzS 600		600	147			
2TS080800	8 OPzS 800		800	215	193	845	2
2TS101000	10 OPzS 1000		1,000		235		
2TS121200	12 OPzS 1200		1,200	277	815	845	
2TS121500	12 OPzS 1500		1,500				
2TS141750	14 OPzS 1750		1,750	400	815	845	
2TS151875	15 OPzS 1875		1,875				
2TS162000	16 OPzS 2000	2,000	490	815	845		
2TS182250	18 OPzS 2250	2,250					
2TS202500	20 OPzS 2500	2,500	580	815	845		
2TS243000	24 OPzS 3000	3,000					

Remark : Specific Gravity 1.240 Kg/L ± 0.01







## NiCd Batteries

### Specification

- Excellent high rate discharge performance
- Long service life
- Wide operating temperature range
- Low self discharge rate
- Resistance to mechanical and electrical abuse
- Low internal resistance
- Absolute reliability
- 20+ years design life

#### XHP TYPE (High Discharge Rate Cells)

XHP Series high rate nickel cadmium battery which made of sintered plate is characterized by compact construction, low internal resistance, high reliability, high capacity, long service life and excellent low temperature performance. The battery is suitable for ultra high rate discharging such as AGV engine starting, switch tripping and closing and any special purpose.

#### EBM TYPE (Medium Discharge Rate Cells)

EBM Series medium rate nickel cadmium battery is made of pocket plate. The battery is suitable for medium discharge periods between 30 minutes and 5 hours such as standby for UPS, gas turbine control, etc.

#### EBL TYPE (Low Discharge Rate Cells)

EBL Series low rate nickel cadmium battery is made of pocket plate. The battery is designed for general purpose and standby applications such as lighting on train and operation of circuit breaker, etc.



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