



**SMARTRON POWER CO.,LTD.**

COMPANY BROCHURE

2017. 6

[www.smtpower.co.kr](http://www.smtpower.co.kr)

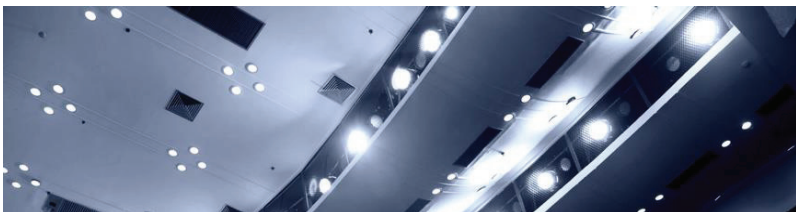


# ABSOLUTE LED CONVERTER POWER SERIES



SMARTRON  
POWER

Smartron Power Co., Ltd. is a leading company in LED SMPS in Korea, and is doing endless R & D investment and domestic quality control. Smartron Power Co., Ltd. is also a company specializing in the research and development of high efficiency LED converter, SMPS for semiconductor equipment, and renewable energy field.





We are applying differentiated technologies to enhance product reliability

We can provide converters for customer according to customers' specifications such as outdoor advertising, landscape lighting, indoor LED bar Constant current power such as constant voltage power, LED street light, security light, tunnel, etc etc

### The innovative legend of LED power

Over-temperature protection and circuitry by LED converter power control

Constant current control circuit and function implementation of LED converter

The device for controlling multi-channel LED

Small Wind Power Generator and Control Method



### Patent technology

KS Certificate / KC Certificate

IP68, the highest waterproof grade

ROHS, an eco-friendly hazardous material restriction standard

PSE(JQE12990) certificate / CE certificate

**KS certificate for, electric safety, waterproof, and environment-friendly certification**



SMARTTRON  
ABSOLUTE POWER SERIES  
LED CONVERTER

# CONTENTS





Greeting

As the Earth already needed to change the paradigm of energy due to lack of resources and depletion, global warming was serious and the world has begun to make an effort to reduce Greenhouse Gas reduction, and Korea also adopted the Kyoto Protocol from 2013.

As the energy market is getting unstable, Smartron Power has been leading the business in supplying LED converters for energy saving, green energy controller using solar and wind.

we are eco-friendly and have excellent controller technology so we can promise that we are "Small but strong company" and "a company open the future with our customers".

- All employees of Smartron Power Co., Ltd. -

SMARTRON  
ABSOLUTE  
LED CONVERTER  
POWER SERIES



## Introduction

Name SMARTRONPOWER Co., Ltd.

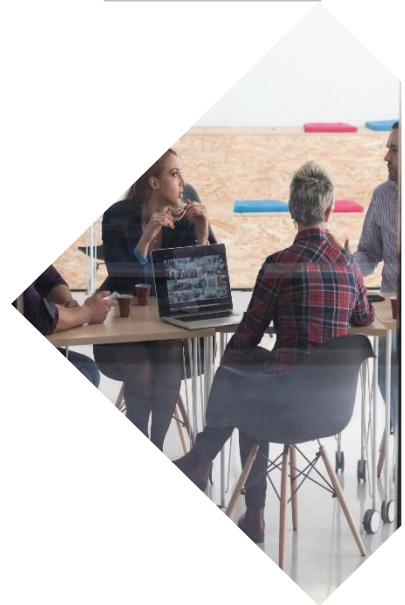
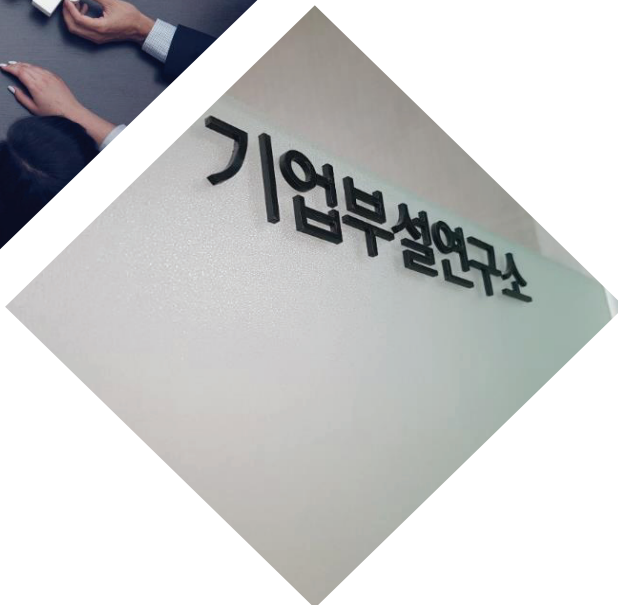
C.E.O Han Yong Lim

Establishment 2011. 1. 14

Address 307ho, 61, Ganam-ro , Seo-gu Incheon Korea

Business LED Converter  
(Lighting, Advertising, landscape Lighting)  
Hybrid Controller  
Nuclear Power  
Battery Charger



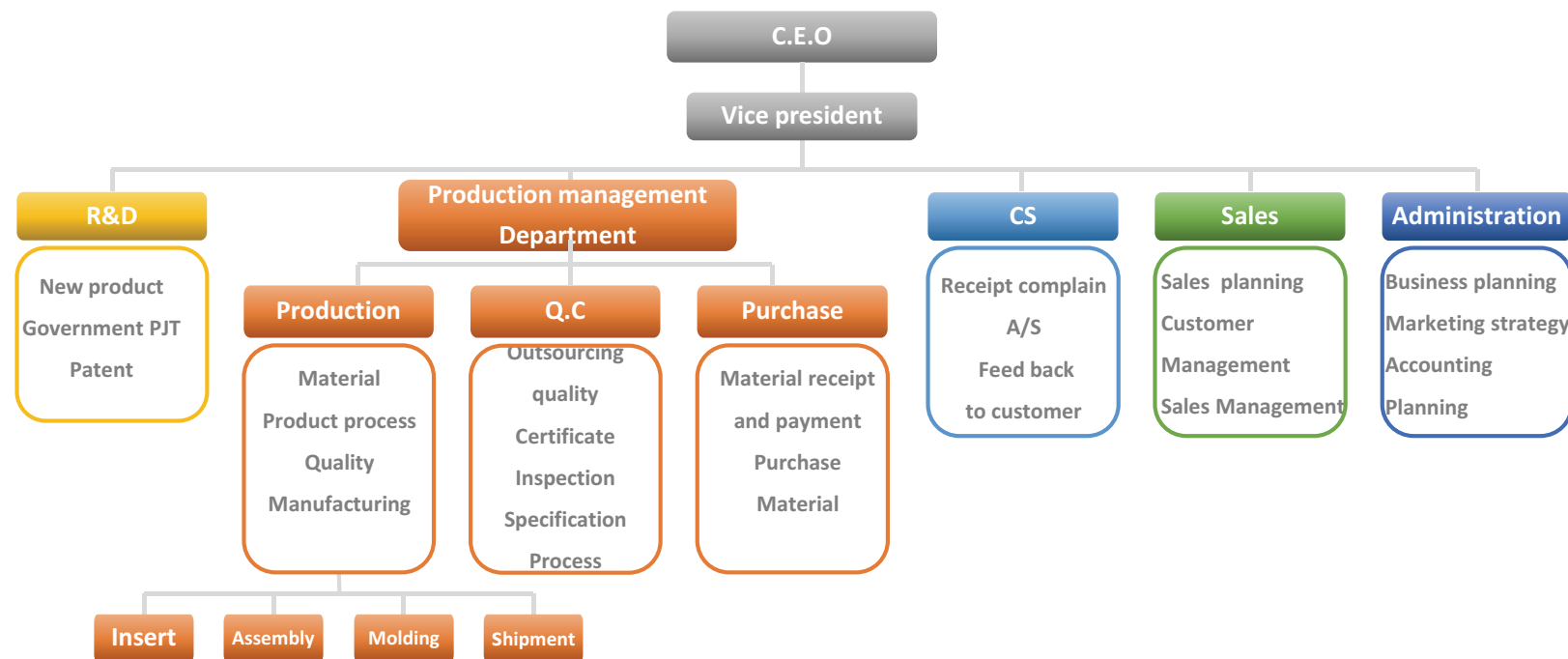
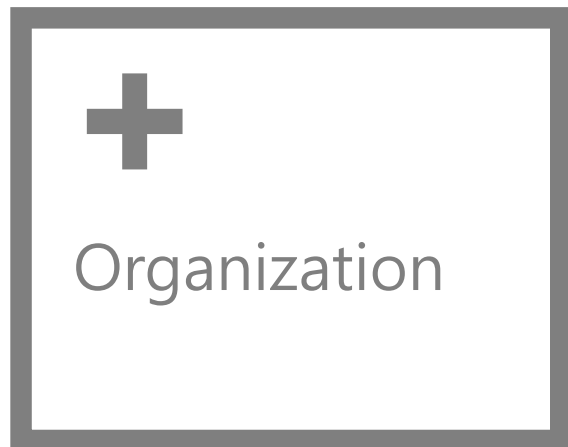


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# History

- |          |   |          |   |
|----------|---|----------|---|
| 2011. 2  | Established company   | 2014. 6  | Acquired CE certificate (60~200W)   |
| 2011. 2  | The launch of controller for solar and wind                           | 2014. 9  | The standard product of Korea Expressway Corporation                          |
| 2011. 4  | Acquired IP68 certificate   | 2015. 5  | Acquired test report (Tunnel light, Street light)                             |
| 2011. 8  | Acquired KC certificate (50~300W)                                     | 2015. 9  | The construction of Insert Line, molding line and automatic inspection system |
| 2011. 9  | Registered venture company  | 2015. 9  | The standard products of Gwang Ju City  |
| 2011. 10 | Acquired RoHS   | 2015. 12 | Acquired test report (Street light)   |
| 2011. 11 | The establishment of R&D center                                       | 2016. 5  | Acquired KS certificate (Over 10W~ less than 30W)                             |
| 2012. 2  | Acquired ISO9001  | 2016. 5  | The standard products of Seoul City   |
| 2012. 6  | Acquired patent for two LED converter<br>(No 10-1155046, No 11550448) | 2016. 9  | Acquired test report (Tunnel Light, Street Light)                             |
| 2012. 6  | Acquired patent for small wind power generation                       | 2016. 9  | Acquired LED Converter Patent<br>(NO 10-1661895)                              |
| 2012. 7  | Acquired KS certificate (30~300W)                                     | 2017. 2  | Imagine the Small and Medium Administration                                   |
| 2013. 2  | Acquired Surge certificate(7KV)                                       | 2017. 4  | The standard products of Busan City   |
| 2013. 5  | Acquired Q-Mark   |          | Acquired test report (Tunnel Light, Street Light)                             |
| 2013. 12 | Acquired PSE certificate (100~200W)                                   |          |   |



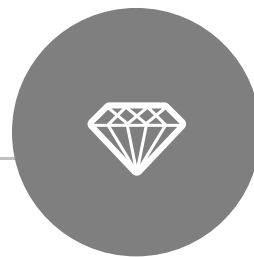






### Customer

- Customer impression and faith
- Entrepreneurship



### Vision

- Customer trust
- Social responsibility



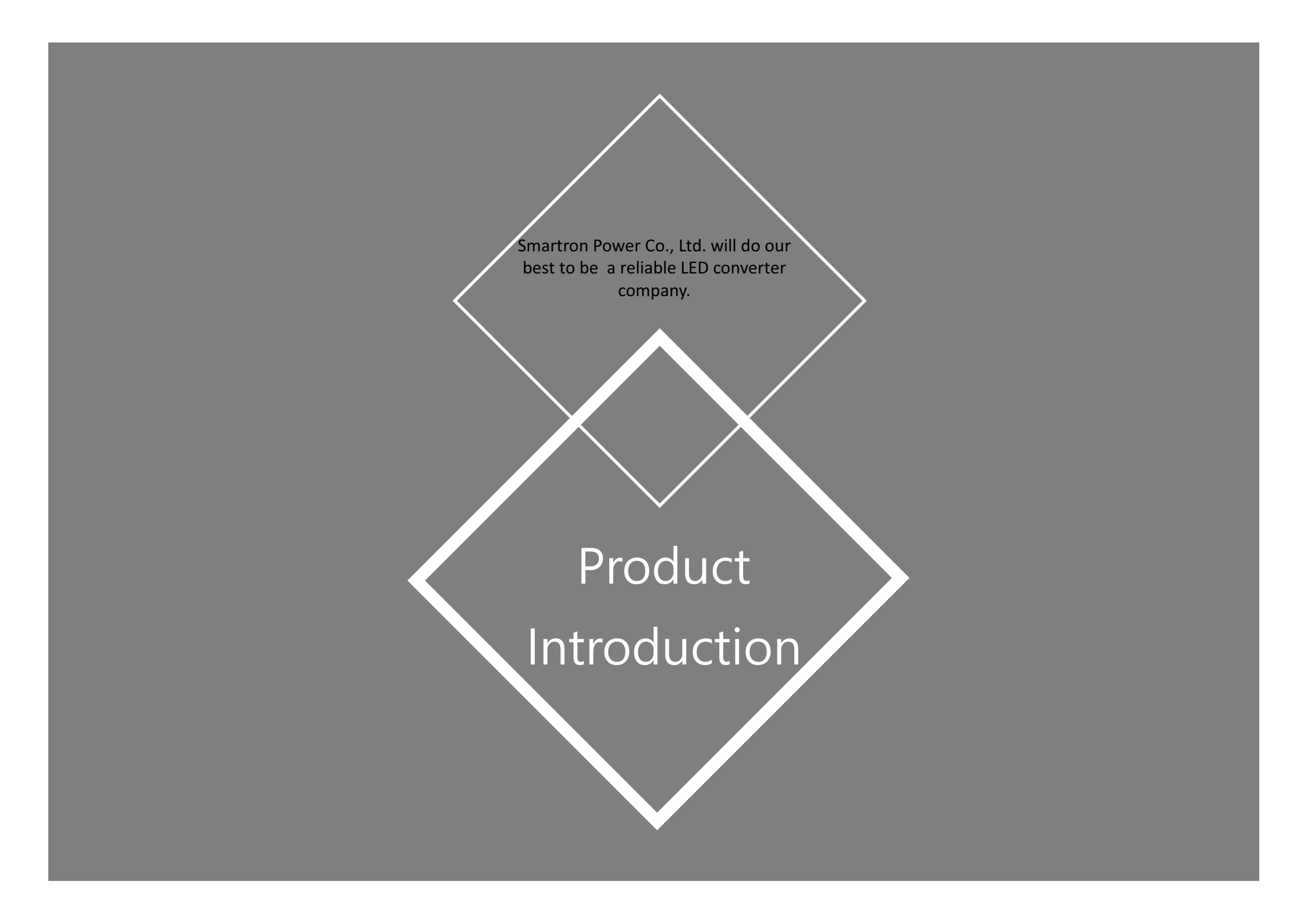
### Management Policy

- Marketing capability
- Righteousness management
- Quality
- delivery



### Core value

- Challenge and passion
- Responsibility and authority



Smartron Power Co., Ltd. will do our  
best to be a reliable LED converter  
company.

# Product Introduction

# 1. LED Converter - Advertising



## SPL SERIES 40-60W

광고용

- KC 인증 제품
- 실내광고 / 정관 조명용
- 정전압 방식
- 방수등급 IP65
- 보호기능 입력 과전압, 과전력, 단락 보호기
- 실내 LED BAR 설치 적합
- 내전압 임용역간 3KVAC
- 주파수 50-60HZ
- 저질 알루미늄 다이캐스팅
- 전압오차 4.3%
- 허용동작온도 -30℃~50℃
- 정격최대온도 -30℃~80℃



## SPL SERIES 100~300W

광고용

- KC 인증 제품
- 직외광고용 / 정관 조명용
- 정전압 방식
- 방수등급 IP68
- 보호기능 입력 과전압, 과전력, 단락 보호기
- 실내외 LED BAR 설치 적합
- 내전압 임용역간 3KVAC
- 주파수 50-60HZ
- 저질 알루미늄 다이캐스팅
- 전압오차 4.3%
- 허용동작온도 -30℃~50℃
- 정격최대온도 -30℃~80℃



## SPL PFC SERIES 100-300W

광고용

- KC 인증 제품
- 직외광고용 / 정관 조명용
- 정전압 방식
- 방수등급 IP68
- PFC 회로내장
- 보호기능 입력 과전압, 과전력, 단락 보호기
- 실내외 LED BAR 설치 적합
- 내전압 임용역간 3KVAC
- 주파수 50-60HZ
- 저질 알루미늄 다이캐스팅
- 전압오차 4.3%
- 허용동작온도 -30℃~50℃
- 정격최대온도 -30℃~80℃

## 2. LED Converter - Lighting (General Products)



### SPLW SERIES 30-80W

조면용

- CV+C.W.MODE
- K인종 제품
- 가로등 / 보안등 / 공장등 / 터널등 / 방폭등 / 집어등
- 정전력 방식
- 방수등급 IP68
- 보호기능 입력 과전압, 과전류, 단락 보호기
- 내전압 임계치인 30VAC
- 주파수 50-60HZ
- 재질 알루미늄 다이캐스팅
- 전압오차 ±3%
- 허용동작온도 -30C-50C
- 용역최대온도 -30C-80C
- 서지전압 인-선 5KV, 산-검 5KV



### SPLW SERIES 100-300W

조명용

- CV+C.W.MODE
- K인종 제품
- 가로등 / 보안등 / 공장등 / 터널등 / 방폭등 / 집어등
- 정전력 방식
- 방수등급 IP68
- 보호기능 입력 과전압, 과전류, 단락 보호기
- 실내용 LED BAR 설치 적합
- 내전압 임계치인 30VAC
- 주파수 50-60HZ
- 재질 알루미늄 다이캐스팅
- 전압오차 ±3%
- 허용동작온도 -30C-50C
- 용역최대온도 -30C-80C
- 서지전압 인-선 7KV, 산-검 7KV

# 3. LED Converter - Lighting (Standard Products)



## SPLW SERIES 25-250W

조명용

한국도요공업사 표준안제품

- C.C MODE
- KS인증 제품
- 다중채널(9~10 채널)
- 가온동 / 4채널용
- 정전압 방식
- 방수등급 IP68
- 보호기능 입력 과전압, 과전력, 단락 보호기
- 내전압 인출역간 30VAC
- 주파수 50~60HZ
- 재질 알루미늄 다이캐스팅
- 전압오차 ±3%
- 허용용 직온도 -30C~50C
- 정격태도온도 -30C~80C



## SPLW SERIES 50-75W

조명용

한국도요공업사 표준안제품

- C.C MODE
- KS인증 제품
- 과전류 보호회로 기능
- 가온동
- 최대 출력 (예외) 제 10-1661805호 LED를 전각의 전류를 독립적으로 제어하여 LED를 출력 현상없이 균등 구동 유지
- 정전압 방식
- 방수등급 IP68
- 보호기능 입력 과전압, 과전력, 단락 보호기
- 내전압 인출역간 30VAC
- 주파수 50~60HZ
- 재질 알루미늄 다이캐스팅
- 전압오차 ±3%
- 허용용 직온도 -30C~50C
- 정격태도온도 -30C~80C
- 인버터 고장방지 외부 구동 10s



## SPLW SERIES 15-200W

조명용

서울시 표준안제품

- C.C MODE
- KS인증 제품
- 정전압 방식
- 다중채널(OPTION)
- 방수등급 IP68
- 보호기능 입력 과전압, 과전력, 단락 보호기
- 내전압 인출역간 30VAC
- 주파수 50~60HZ
- 재질 알루미늄 다이캐스팅
- 전압오차 ±3%
- 허용용 직온도 -30C~50C
- 정격태도온도 -30C~80C



## SPLW SERIES 25-200W

조명용

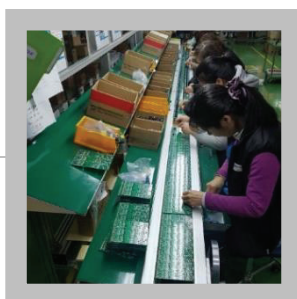
부산시 표준안제품

- C.C MODE
- KS인증 제품
- 정전압 방식
- 다중채널(OPTION)
- 방수등급 IP68
- 보호기능 입력 과전압, 과전력, 단락 보호기
- 내전압 인출역간 30VAC
- 주파수 50~60HZ
- 재질 알루미늄 다이캐스팅
- 전압오차 ±3%
- 허용용 직온도 -30C~50C
- 정격태도온도 -30C~80C
- 100W 초과제품을 2채널 (각 채널당 출력은 전체 소비전력의 1/2로 한다)

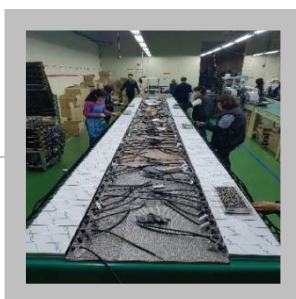


# Production process

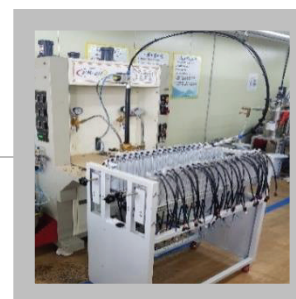
Smartron Power Co., Ltd. has built a production line focused on quality control and delivery management by its own production process and automatic inspection



Insert Line



Assembly Line



Molding Line



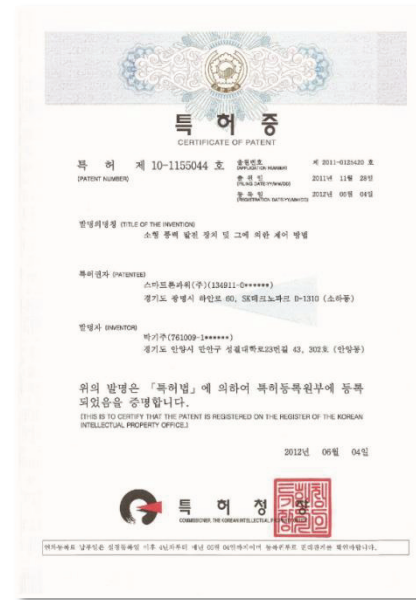
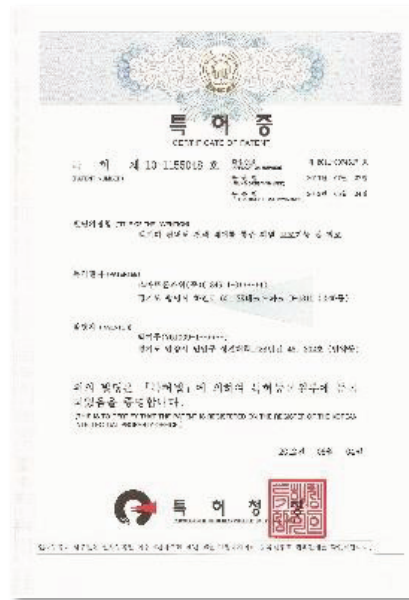
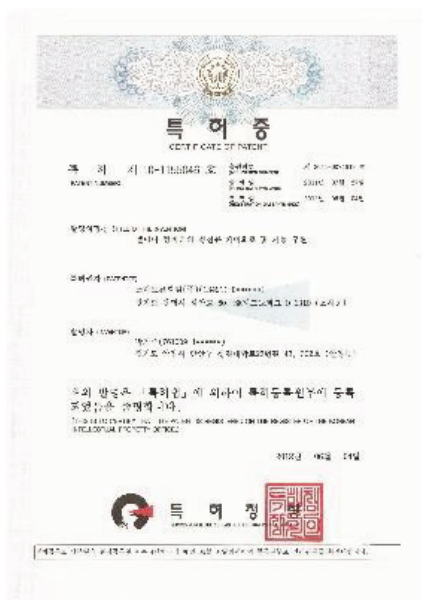
Shipment



Automatic inspection system  
Automatic inspection system for each process



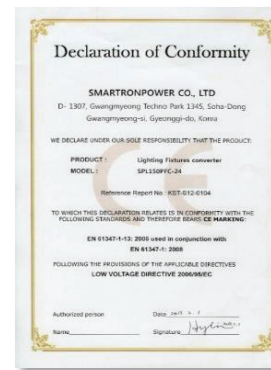
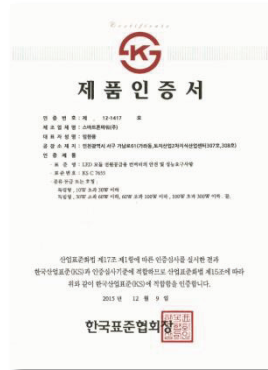
# Patent





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# Certificate





# Application



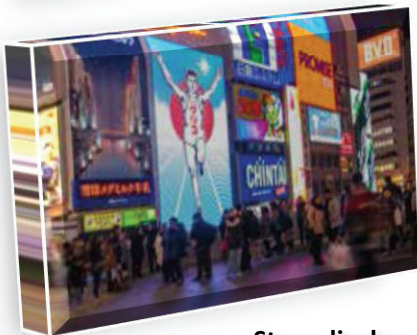
**Apartment landscape lighting**



**Urban landscape lighting**



**Illumination lighting**



**Store display**



**Theme display**



**LED backlighting**



Thank You