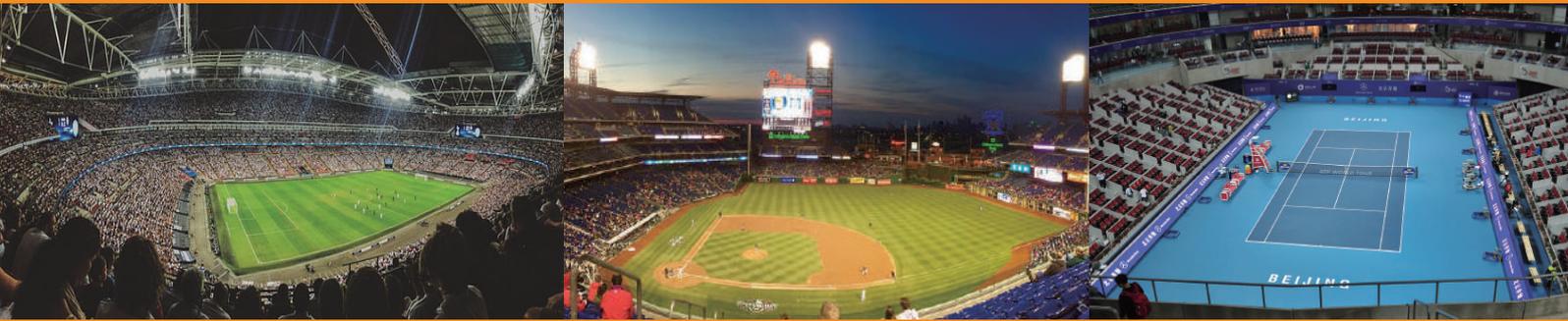


2017 Specification of Sports & Big space lighting



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86-21,1gongdan-ro,Gumi-si,Gyeongsangbuk-do,Korea



STELLON Brightly anywhere

Illuminates us everywhere...

Stellar is a sport. We will put light into your space with a special brand of space lighting.

As a special sports, big space lighting brand Stellon brings light into your place.

Stellon realizes lighting design that is optimized for sports and large space lighting spaces.

Create a perfect lighting space with a delicate lighting design and a stable light environment.



※Stellon is representative brand of eGM Tech

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Introduction 회사개요

Company name : eGMTECH

President : Seounghun Kim

Establishment : December 29, 2010

Address : 86-21, 1 Gongdan-ro,
Gumi, Gyeongsangbuk-do
Korea



※e-GM Tech side night view

History 회사연혁

- 2015**
 - DEC Launched R,G,B color lighting
 - SEP Launched SLIM series
 - AUG Applied Sealing, mixing equipment : semi automated system
 - SEP Launched SLIM series
 - JUN Participated in 2015 Gyeongbuk South east asia trade delegation
 - MAY Participated in 2015 Gyeongbuk CIS trade delegation
 - MAR Participated in 2015 Gyeongbuk middle east trade delegation
 - MAR ISO 14001:2004 / ISO 9001:2008 / G-CERTI
 - FEB IP STAR company selected / Gyeongbuk regional intellectual property center

- 2014**
 - DEC Participated in the 2014 G-fair Malaysia Kuala Lumpur
 - NOV Participated as the 2014 Asia Trade Mission Group (in Jakarta, Bangkok)
 - OCT Participated in the 2014 LED Japan Conference & EXPO
 - OCT Concluded an MOU with philippines company
 - OCT Participated in the industry-academia project (Dongguk University)
 - OCT Participated in the 2014 Excellent Product Exhibition in the Philippines and North Gyeongsang Province
 - SEP Participated in the 2014 Hansang Network
 - JAN JAN Certified as Green Technology Company (No. GE-14-00002)

- 2013**
 - OCT Dual-seal waterproof floodlight and its method
 - OCT KC-certified for the NF220V32NA model Korea Testing & Research Institute
 - SEP Registered the filling guide and floodlight cable waterproofing method based on it No. 10-1306924GH by the Korean Intellectual Property Office
 - AUG Obtained Green Technology Certificate (No. GT-13-00178) Minister of Trade, Industry and Energy
 - AUG Increase in capitals (recapitalization)
 - MAY Registered the eligibility for procurement bidding Public Procurement Service
 - MAY Confirmed to be Venture Company Small & medium Business Corporation
 - MAY Certified for direct production / Korea Federation of SMEs
 - MAY Signed an investment deal on the development for coastal and special lighting system with Japan-based NBS
 - FEB Registered the production plant / Korea Industrial Complex Corporation
 - JAN Expanded and moved the current plant in Gongdan-dong

- 2012**
 - MAY Applied the waterproof/damp proof technology to complete the development project of the 30W LED floodlight

- 2011**
 - OCT Embarked on the waterproof damp proof technology development project

- 2010**
 - DEC Established eGM Tech Co.,Ltd

- 2017**
 - FEB Awarded the Governor's commendation on the 53rd Daegu-Gyeongbuk Trade day ceremony
 - MAR The 4th Gyeongbuk clean management awards on march 3rd
 - APR Participated in the 2017 LEDTEC ASIA in Hochiminh, Vietnam
 - MAY Participated in 2017 Asia trade delegation
 - SEP Participated in JAPAN trade delegation
 - OCT Awarded Gyeongsangbuk-do New Growth Company

- 2016**
 - DEC 2016 Participated in the 2016 Futures club ASIA trade delegation
 - DEC Awarded the Governor's commendation on the 53rd Daegu-Gyeongbuk Trade day ceremony
 - OCT Participated in 2016 Hong Kong International lighting Fair Autumn Edition
 - SEP Participated in 2016 LEDTEC ASIA, Hanoi, Vietnam
 - APR Participated in 2016 India trade delegation
 - APR Certified CE, FCC, PSE certification
 - MAR Slim model design patented
 - MAR High efficiency certificate
 - FEB Participated in 2016 Asia trade delegation
 - FEB Relocateion for expansion

Business

회사실적

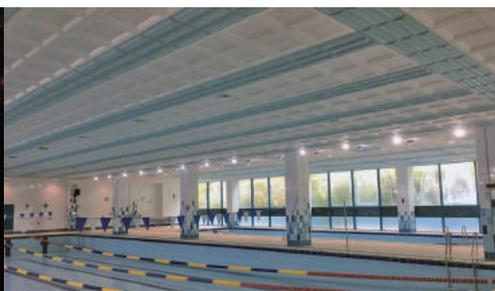


※ Kyung il university soccer field 300W 108ea installed

Location	Use	Installation place	Model	lighting count
Seoul hangang park	Sports	Futsal field	150W	8ea
Pakistan jinnah Stadium	Sports	gymnasium	300W	114ea
Kyung il university	Sports	soccer field	300W	108ea
luge circuit (Tongyeong)	Theme park	Circuit	35WR,G,B	450ea
yok ji do (Tongyeong)	Sports	Tennis court	150W	16ea
Sinjeri Gyeongsan	Sports	Foot volleyball court	300W	16ea
Andong university	Sports	Swimming pool	50W,80W	32ea
hayang-eup Gyeongsan	Big space	Intersection	300W	16ea



Keumrak intersection



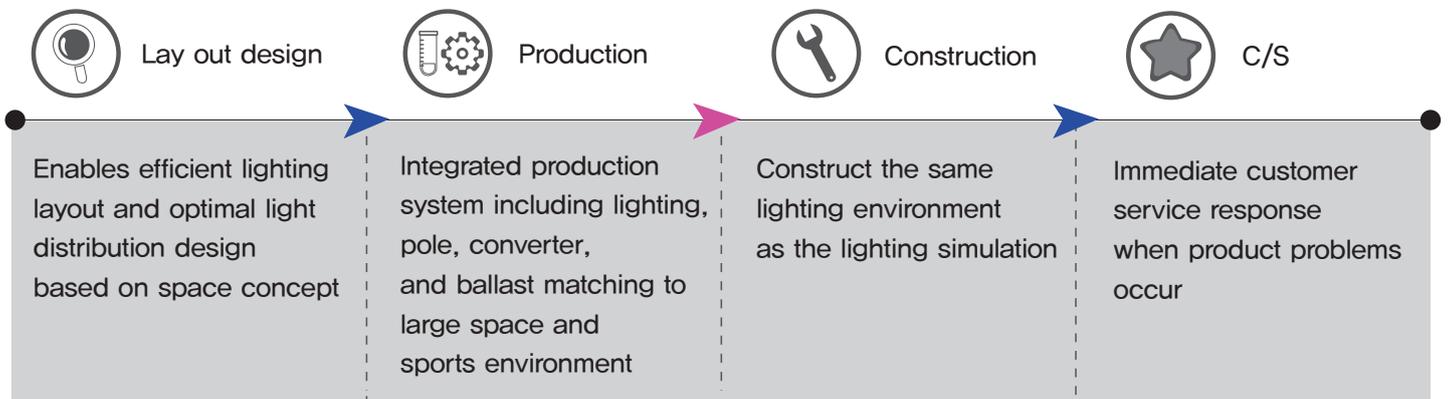
Andong uni swimming pool



Luge circuit (Tongyeong)

STELLON Intergrated Solution

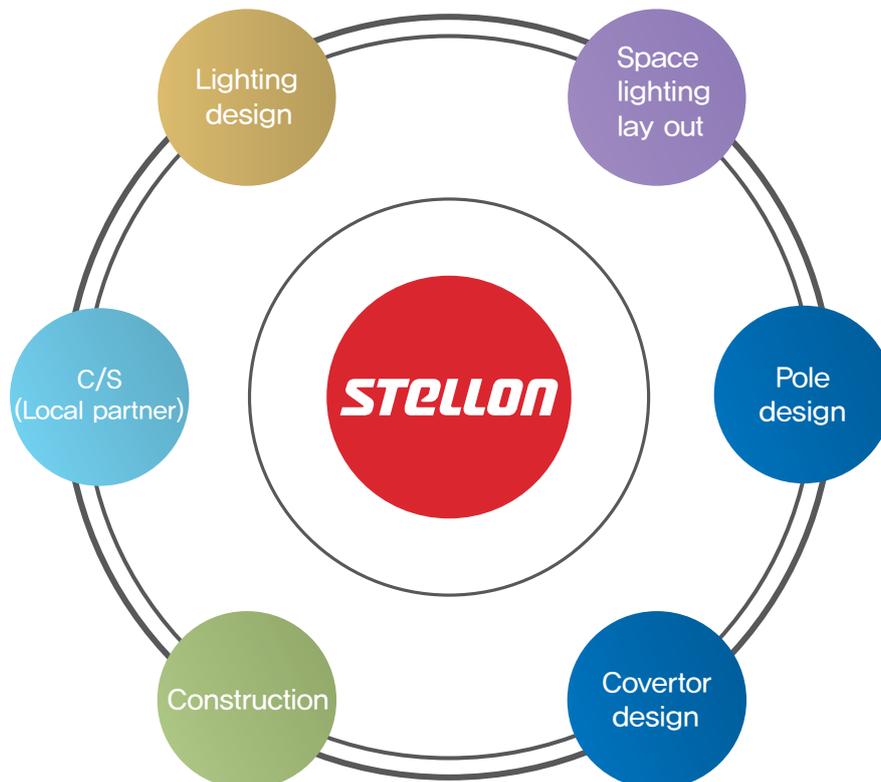
Total lighting system process



Stellon is a leading brand of e-GM Tech, which produces various LED lighting including large space and sports lighting

Based on the experience of installation of various large-sized space and sports lighting, we are moving away from the strategy of the lighting manufacturer which simply supplies only the lighting

We are making a satisfying lighting by using the lighting identity utilization strategy that makes the identity of the space lighting unified based on the integrated system,

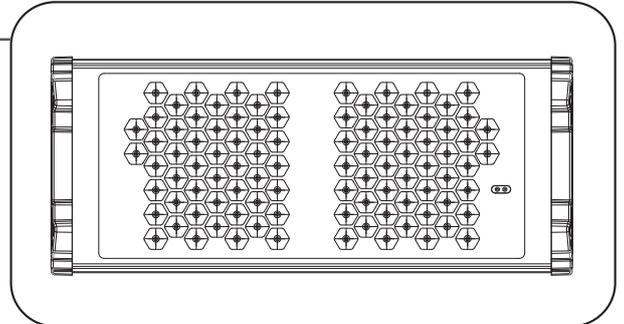


STELLON Strong point of Stellon Lighting

Stellon LED lights

Stellon LED lighting is 100% waterproof, moisture proof dustproof and highly durable with 2 patented technologies.

One side 20°, 20°, 40°, 60° Lens and 120° angle to minimize glare and optimize spatial illumination for light distribution in various environments.



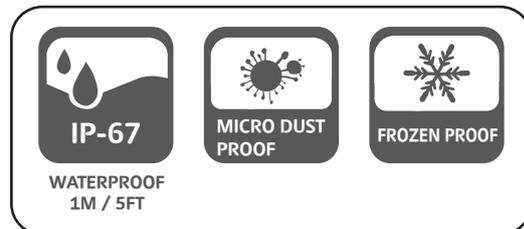
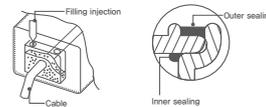
HQI Replaceable Products

- Replacement of metal halide 1KW, 1.5KW
- 10 ~ 25% luminous flux increase
- Long lifespan, eco-friendly, saving energy management costs (compared to metal halide lighting)



100% Waterproof

- IP68
- 2 related patent



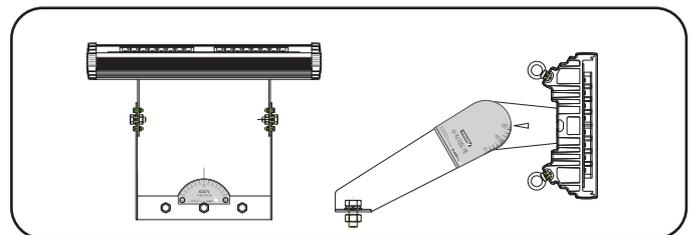
Electricity cost reduction

- 30 ~ 40% Electricity savings (compared to HQI)
- Saving electricity consumption 3 ~ 5 times



Horizontal, vertical aiming angle diagram

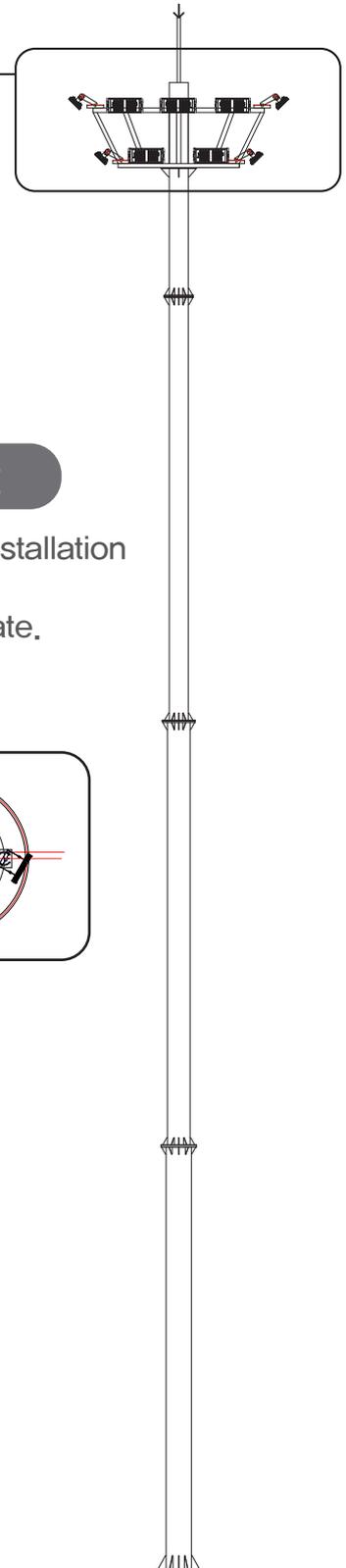
- Attaching angle diagram to lighting
- Angle alignment possible when replacing light



STELLON Strong point of Stellon Pole

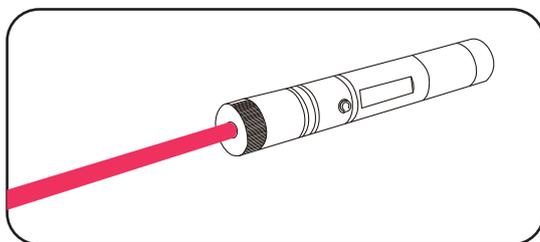
Stellon Pole (Pipe, taper, lighting tower)

Stellon Pole can cope with any space and sports environment from pipe pole to taper and lighting tower pole according to the environment. Electrical wiring is installed inside the poles and the finish is clean. Ballast box space is provided at the bottom of the pole for stability and aesthetics.



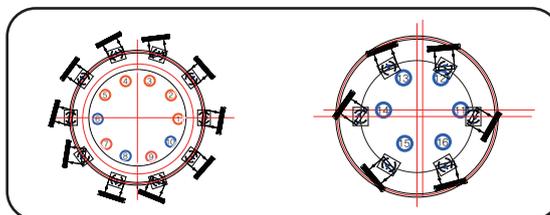
Lighting aiming laser

- Precise direction measurement for required illuminance
- Saves work, construction time and easy to check aiming



Rotating pole light

- If there is no restriction on installation environment, 360 degree work surface can be illuminate.



Installation Height Wire Specification Table

-Product Wire Specification Table according to Pole Height(300W,600W)

Height	Wire standard (AWG)	Cross section (mm ²)	Shape
Under 12m	15	1.5	
13~21m	13	2.5	
22~34m	11	4	

※ Ex) For 21m pole height, wire should be 13 AWG (cross-sectional 2.5mm)

STELLON Lighting lay out simulation

Stellon implements 3D lighting lay out simulations for large spaces and sports spaces based on optimal lighting design.



STELLON

Comparison of the operating cost saving from 10 years of intersection

Stellon energy saving

Stellon always strives to save the natural environment and energy

In comparison with the conventional technology,
the energy saving rate is **78%!!**



10 years Maintenance cost reduction table

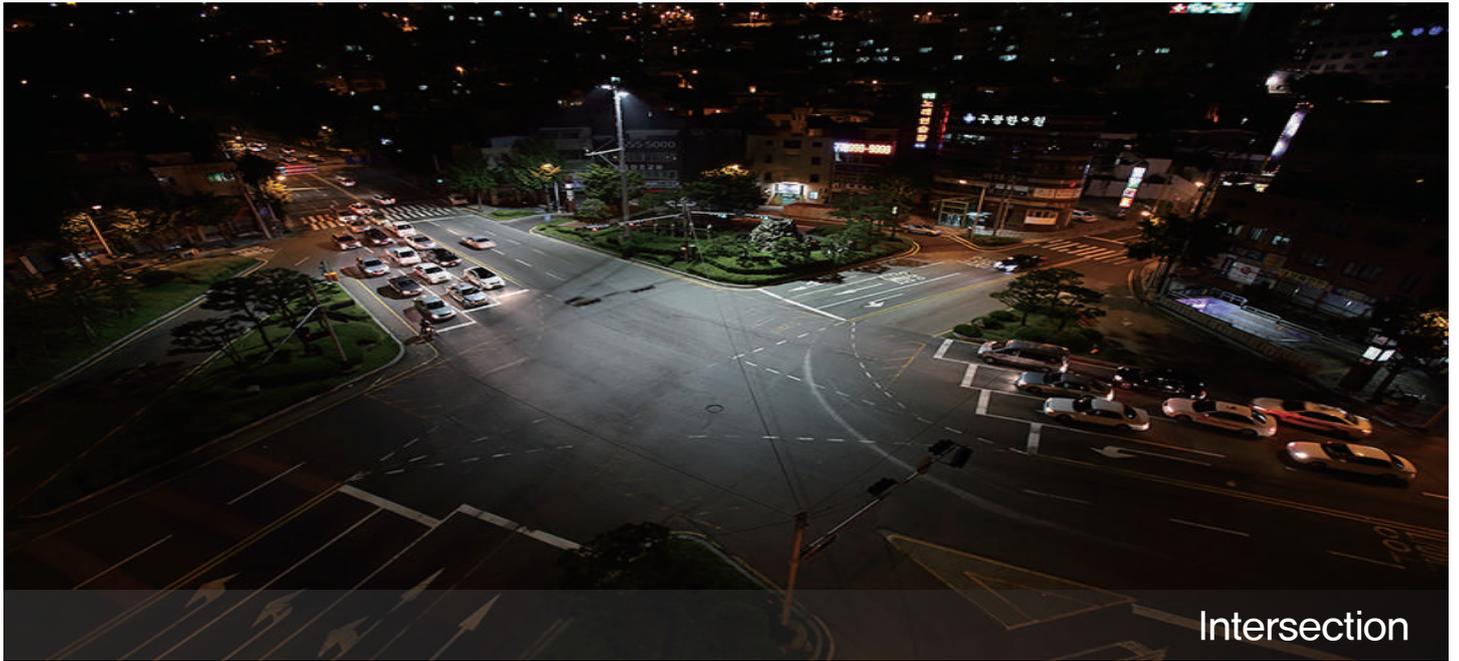
10 hours a day	Conventional street light (Partly illuminate)	Conventional street light (Wholely illuminate)	M company lighting (Wholely illuminate : Avg.65lx)	STELLON lighting (Wholely illuminate : Avg.65lx)
Lighting type & quantity	400W 36ea/pcs	400W 72ea/pcs	1500W 6ea/pcs	300W 19ea/pcs
Power consumption per hour	14.4KW	28.8KW	9KW	5.7KW
Power consumption for 10 years	525,600	1,051,200	328,500	208,050
Power cost	\$525,600	\$1,051,200	\$328,500	\$208,050
Lighting replacement cost	\$105,000	\$210,000	free of charge	free of charge
Maintenance cost	\$305,000	\$610,000	free or charge	free of charge
Estimated cost	\$936,600	\$1,871,200	\$328,500	\$208,050

Estimation of savings

- 3 of intersections
- Partly illuminate:Partly illuminated by the crosswalk
- Wholely illuminate:Uniformly illuminate the whole area
- Electricity cost :1\$/Kwh, labor cost 100\$/12ea
- Lamp replacment request for 10 years:5times
- Conventional lighting and ballast :100\$ / set
- Other maintenance :Maintenance of facility outside the lamp

Additional savings compared to M company

- Repositioning device
- Anti glare device
- Smart lamp system
- >No need for 3 kinds of accessories :
Reduced cost by \$3,300



Big space

대공간 조명

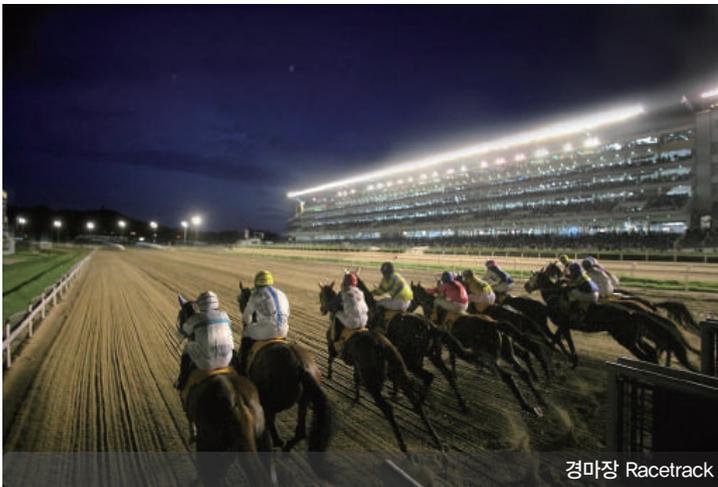




축구장 Stadium

Sports space

스포츠 조명



경마장 Racetrack



테니스 ARENA



야구장 Baseball stadium



골프장 GOLF

LED Flood lighting 100W



Big space lighting 100W

100% waterproof, damp proof, dust proof
oil proof floodlight fully supported to big space
factory, sports and leisure lighting



■ : STANDARD (Perfect water proof(IP68 certificate, related patent) and 60~70% savings electricity cost

Total flux	Luminance efficiency	Beam angle	CRI	CCT
10,200(lm)	102lm/w	One side 20° / 20° / 40° / 60° / 120°	Over 80	5700K 4000K 3000K

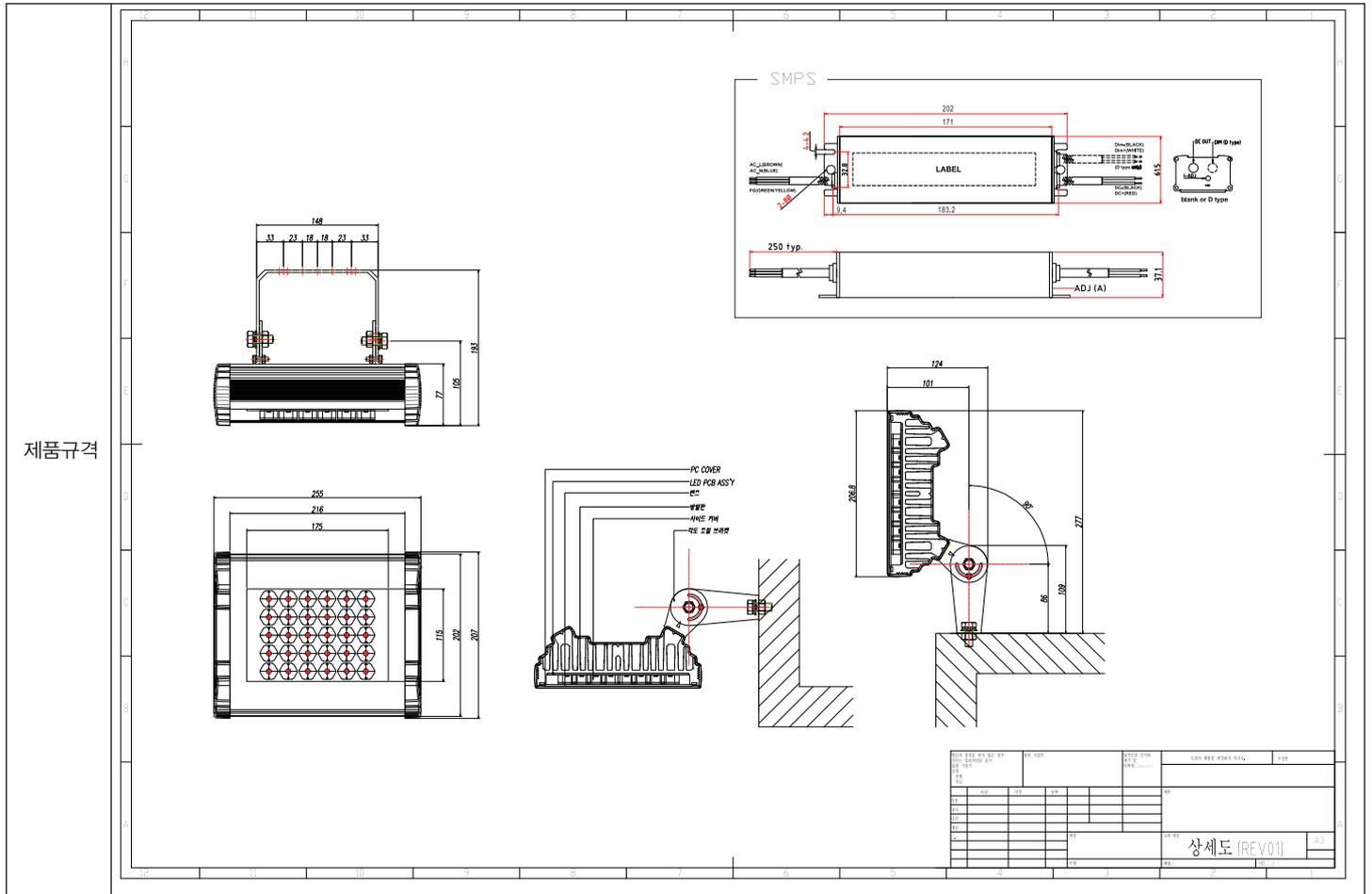
Converter	Input voltage	Power consumption	PF	Converter efficiency
Union Mean well	AC100V~250V 50/60Hz	100W	Over 0.95	90%

IP level	IK level	Weight	Working temperature	Heatsink material	Cover material
IP68	IK10	Lighting 3.5kg Converter 0.8kg	-40~50°C	AL 6063	Poly Carbonate

LED Flood lighting 100W classification

Product name	Details name of product	Name of item	Purpose
Light	Flood light	PL220V100WCS2-CW (One side 20 degree)	Indoor & Outdoor lighting tower Leisure & Sports lighting High ceiling factory Large ware house etc.
		PL220V100WC20-CW (20 degree)	
		PL220V100WC40-CW (40 degree)	
		PL220V100WC60-CW (60 degree)	
		PL220V100WNA-CW (120 degree)	

LED Flood lighting 100W Dimension



LED Flood lighting 150W



Big space lighting 150W

100% waterproof, damp proof, dust proof
oil proof floodlight fully supported to big space
factory, sports and leisure lighting



■ : STANDARD (Perfect water proof(IP68 certificate, related patent) and 60~70% savings electricity cost

Total flux	Luminance efficiency	Beam angle	CRI	CCT
15,450(lm)	103lm/w	One side 20° / 20° / 40° / 60° / 120°	Over 80	5700K 4000K 3000K

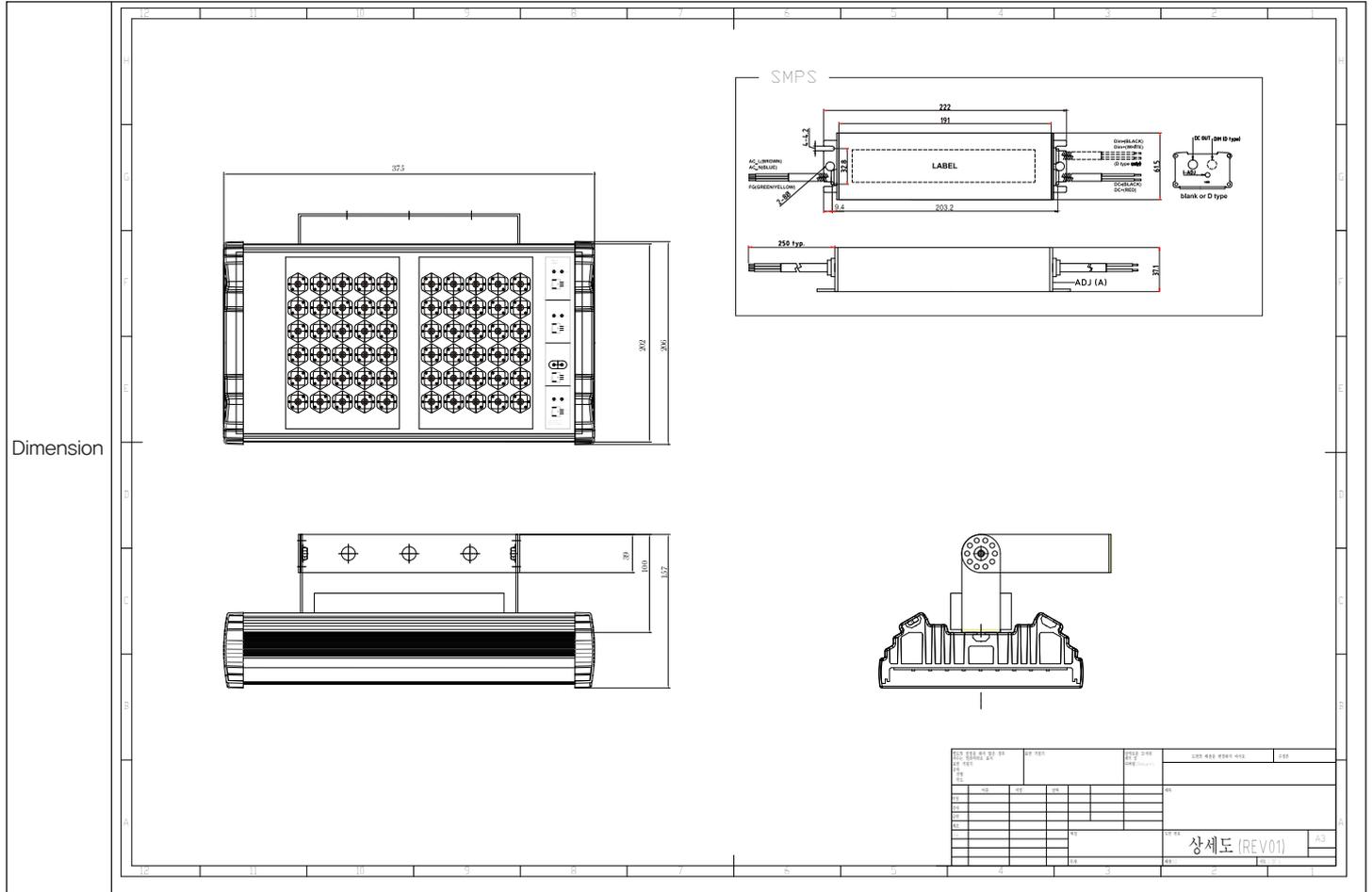
Converter	Input voltage	Power consumption	PF	Converter efficiency
Union Mean well	AC160V~305V 50/60Hz	150W	Over 0.95	90%

IP level	IK level	Weight	Working temperature	Heatsink material	Cover material
IP68	IK10	Lighting 4kg Converter 1kg	-40~50°C	AL 6063	Poly Carbonate

LED Flood lighting 150W classification

Product name	Details name of product	Name of item	Purpose
Light	Flood light	PL220V150WCS2-CW (One side 20 degree)	Indoor & Outdoor lighting tower Leisure & Sports lighting High ceiling factory Large ware house etc.
		PL220V150WC20-CW (20 degree)	
		PL220V150WC40-CW (40 degree)	
		PL220V150WC60-CW (60 degree)	
		PL220V150WNA-CW (120 degree)	

LED Flood lighting 150W Dimension



LED Flood lighting 200W



Big space lighting 200W

100% waterproof, damp proof, dust proof
oil proof floodlight fully supported to big space
factory, sports and leisure lighting



■ : STANDARD (Perfect water proof(IP68 certificate, related patent) and 60~70% savings electricity cost

Total flux	Luminance efficiency	Beam angle	CRI	CCT
19,830(lm)	103lm/w	One side 20° / 20° / 40° / 60°/120°	Over 80	5700K 4000K 3000K

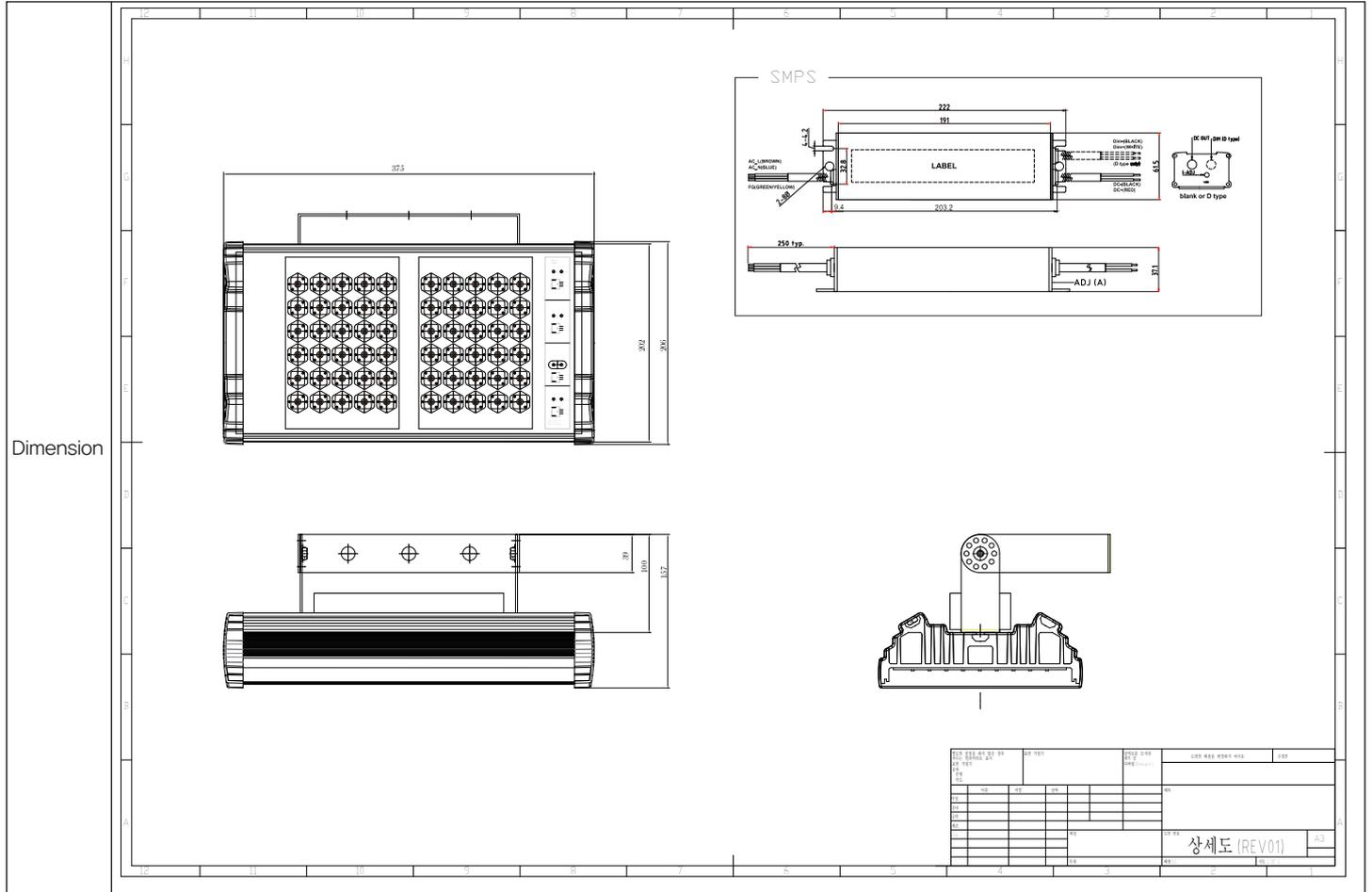
Converter	Input voltage	Power consumption	PF	Converter efficiency
Union Mean well	AC100V~250V 50/60Hz	200W	Over 0.95	90%

IP level	IK level	Weight	Working temperature	Heatsink material	Cover material
IP68	IK10	Lighting 4kg Converter 1kg	-40~50°C	AL 6063	Poly Carbonate

LED Flood lighting 200W classification

Product name	Details name of product	Name of item	Purpose
Light	Flood light	PL220V200WCS2-CW (One side 20 degree)	Indoor & Outdoor lighting tower Leisure & Sports lighting High ceiling factory Large ware house etc.
		PL220V200WC20-CW (20 degree)	
		PL220V200WC40-CW (40 degree)	
		PL220V200WC60-CW (60 degree)	
		PL220V200WNA-CW (120 degree)	

LED Flood lighting 200W Dimension



LED Flood lighting 300W



Big space lighting 300W

100% waterproof, damp proof, dust proof
oil proof floodlight fully supported to big space
factory, sports and leisure lighting



■ : STANDARD (Perfect water proof(IP68 certificate, related patent) and 60~70% savings electricity cost

Total flux	Luminance efficiency	Beam angle	CRI	CCT
38,000(lm)	126lm/w	One side 20°/ 20°/ 40°/ 60°/120°	Over 80	5700K 4000K 3000K

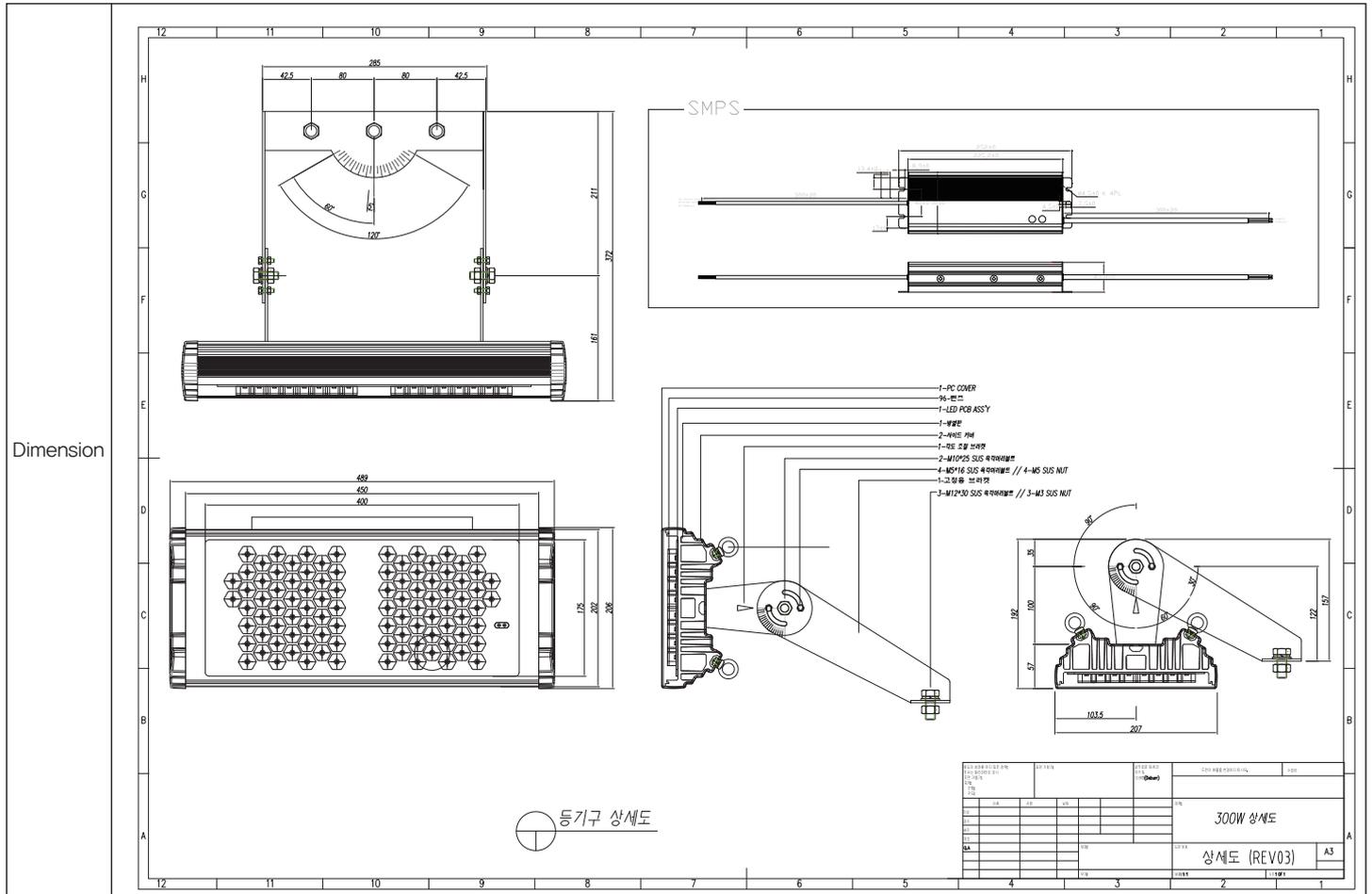
Converter	Input voltage	Power consumption	PF	Converter efficiency
Mean well	AC 90V~305V 50/60Hz	300W	Over 0.95	90%

IP level	IK level	Weight	Working temperature	Heatsink material	Cover material
IP68	IK10	Lighting 6.5kg Converter 1.5kg	-40~50°C	AL 6063	Poly Carbonate

LED Flood lighting 300W Dimension

Product name	Details name of product	Name of item	Purpose
Light	Flood light	PL220V300WCS2-CW (One side 20 degree)	Indoor & Outdoor lighting tower
		PL220V300WC20-CW (20 degree)	Leisure & Sports lighting
		PL220V300WC40-CW (40 degree)	High ceiling factory
		PL220V300WC60-CW (60 degree)	Large ware house etc.
		PL220V300WNA-CW (120 degree)	

LED Flood lighting 300W Dimension



Installation Height Wire Specification Table

-Product Wire Specification Table according to Pole Height(300w,600w)

Height	Wire standard (AWG)	Cross section (mm ²)	Shape
Under 12m	15	1.5	
13~21m	13	2.5	
22~34m	11	4	

※ Ex) For 21m pole height, wire should be 13 AWG (cross-sectional 2.5mm)

LED Flood lighting 600W



Big space lighting 600W

100% waterproof, damp proof, dust proof
oil proof floodlight fully supported to big space
factory, sports and leisure lighting



■ : STANDARD (Perfect water proof(IP68 certificate, related patent) and 60~70% savings electricity cost

Total flux	Luminance efficiency	Beam angle	CRI	CCT
76,000(lm)	126lm/w	One side 20°/ 20°/ 40°/ 60°/120°	Over 80	5700K 4000K 3000K

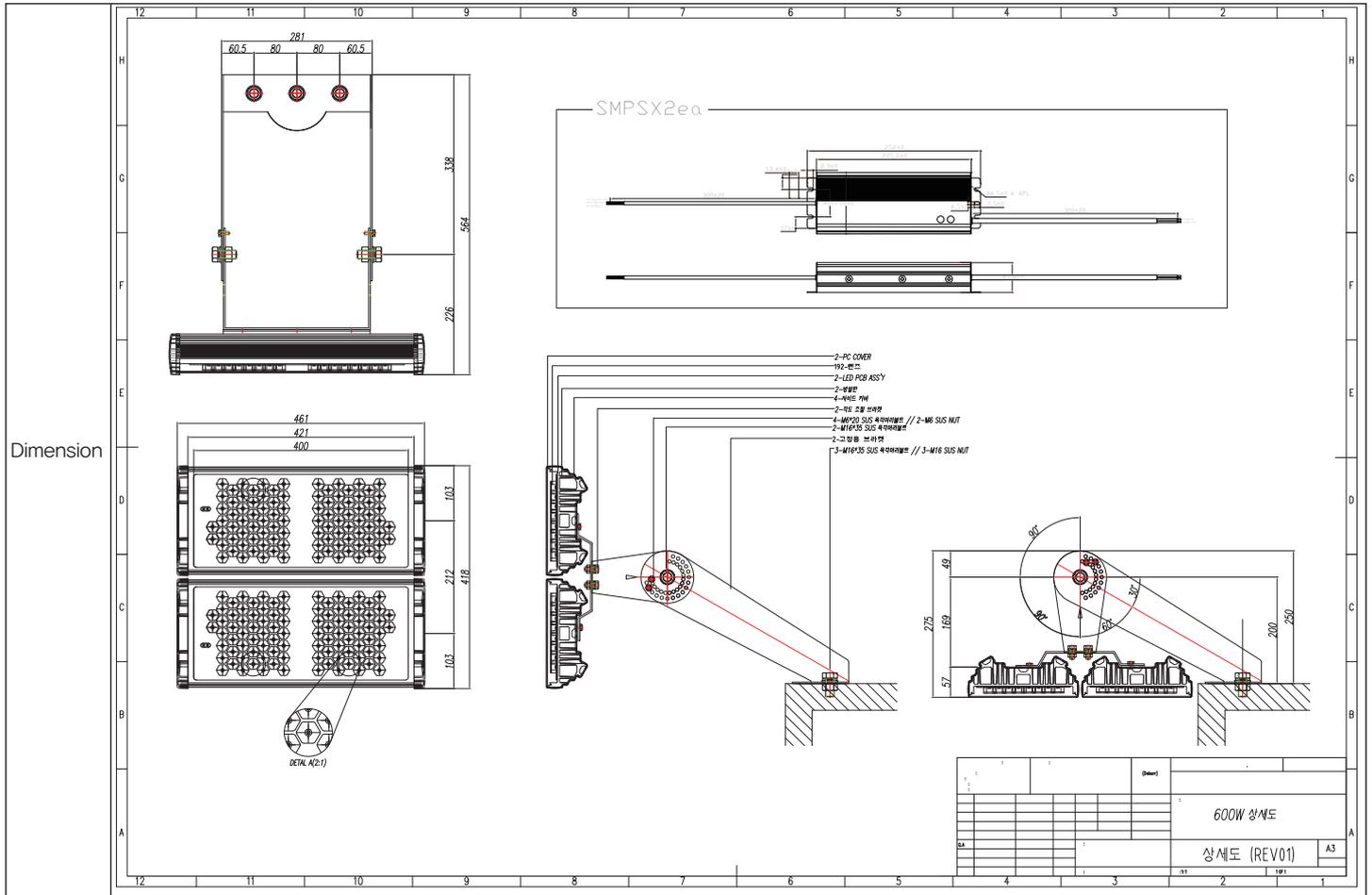
Converter	Input voltage	Power consumption	PF	Converter efficiency
Mean well	AC 90V~305V 50/60Hz	600W	Over 0.95	90%

IP level	IK level	Weight	Working temperature	Heatsink material	Cover material
IP68	IK10	Lighting 13kg Converter 1.5kg	-40~50°C	AL 6063	Poly Carbonate

LED Flood lighting 300W Dimension

Product name	Details name of product	Name of item	Purpose
Light	Flood light	PL220V300WCS2-CW (One side 20 degree)	Indoor & Outdoor lighting tower Leisure & Sports lighting High ceiling factory Large ware house etc.
		PL220V300WC20-CW (20 degree)	
		PL220V300WC40-CW (40 degree)	
		PL220V300WC60-CW (60 degree)	
		PL220V300WNA-CW (120 degree)	

LED Flood lighting 600W Dimension



Installation Height Wire Specification Table

-Product Wire Specification Table according to Pole Height(300w,600w)

Height	Wire standard (AWG)	Cross section (mm ²)	Shape
Under 12m	15	1.5	
13~21m	13	2.5	
22~34m	11	4	

※ Ex) For 21m pole height, wire should be 13 AWG (cross-sectional 2.5mm)



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