



More than 8 years



Aluminum Alloy Ultra Thin Design
AIO Solar Street Light

Introduction

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05 Optical Figure

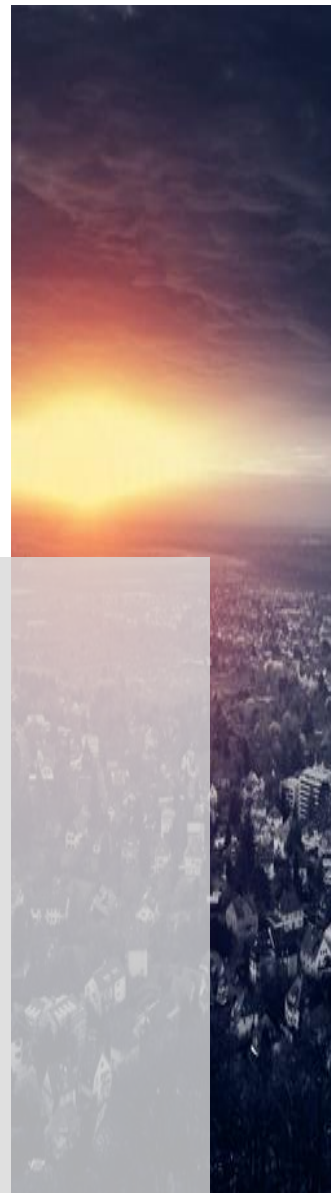
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MAIN ADVANTAGES



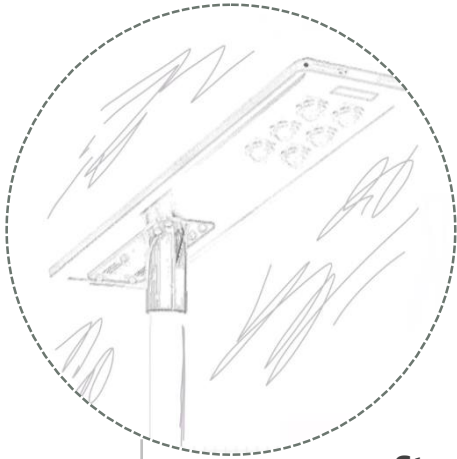
Ultra Thin Design with Long time Antonomy

- ◎ Aluminum Alloy housing , never fade .
- ◎ Oxidation technology , which is suitable for the area which near with sea . Anti-rust , anti corrosion.
- ◎ Extrusion aluminum profile technology
- ◎ Mounting bracket : Strong and wind-resistant
- ◎ Coeus Technology with long time antonomy



E3P Series	ELS-32P	ELS-33P	ELS-34P	ELS-35P	ELS-36P	ELS-37P	ELS-38P	ELS-39P	ELS-310P
Solar panel									
Mono-crystalline Tempered Glass Solar Panel	20W	35W	43.2W	55W	55W	55W	78W	78W	78W
Led									
CREE LED Number	12pcs >50000H	24pcs >50000H	36pcs >50000H	72pcs >50000H	72pcs >50000H	72pcs >50000H	96pcs >50000H	96pcs >50000H	96pcs >50000H
LED Module	1	2	3	6	6	6	8	8	8
CREE LED Emitter output (Max on peak)	20W	30W	40W	50W	60W	70W	80W	90W	100W
Efficiency	160lm/w	160lm/w	160lm/w	160lm/w	160lm/w	160lm/w	160lm/w	160lm/w	160lm/w
CREE LED illumination color	6000K	6000K	6000K	6000K	6000K	6000K	6000K	6000K	6000K
Battery									
Li-ion Battery Pack	98WH	196WH	228WH	261WH	293WH	326WH	391WH	456WH	521WH
Charging Time	6-8hrs by bright sunshine								
Other information									
Product Material	Aluminum alloy case with oxidation technology								
Operation Temperature	-25℃ ~ 65℃								
Sensitivity Coverage	(PIR sensor) 3-15M								
Lighting time	3-5nights after fully charged								
Working mode	1) 5H Full bright+ 25% Sensor 100%2) 25% Sensor+ 100% All nights 3) 5H Full bright+ 25% Dim until dawn								
Intelligent power management	Yes								
Mounting Adaptor	Inner diameter 60mm , Adjustable			Inner diameter 92mm (Non-adjustable)					
Pole height/distance	3-4m/ 9-12m	3.5-4.5m/ 10-14m	4-5m/ 12-15m	5-6m/ 15-18m	6-8m/ 18-24m	6-8m/ 18-24m	8-10m/ 24-30m	8-10m/ 24-30m	8-10m/ 24-30m
Aux Solar Panel/ DC Adapter	Optional, 16.8V DC/≤5A								
Light Size (L x W)	520*328 mm	710*328 mm	890*328 mm	1040*328 mm	1040*328 mm	1040*328 mm	1490*328 mm	1490*328 mm	1490*328 mm
IP/IK	65/08	65/08	65/08	65/08	65/08	65/08	65/08	65/08	65/08
Certificate	CE ROHS FCC ISO9001:2015								
Warranty	3years								

Product Design Process



Stucture design



Assembly work

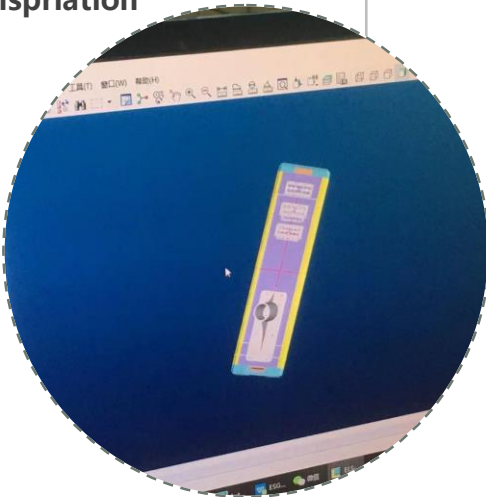
First Step

Second Step

Third Step

Fourth Step

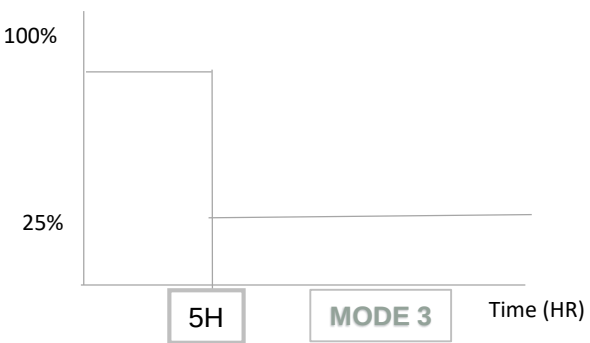
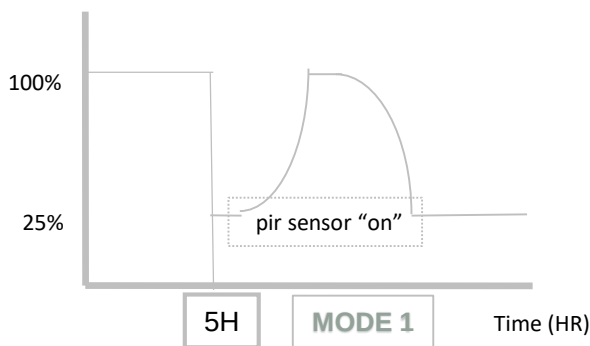
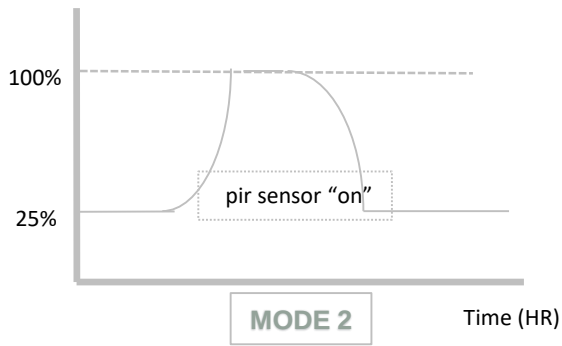
**Design Drawing
from inspriation**



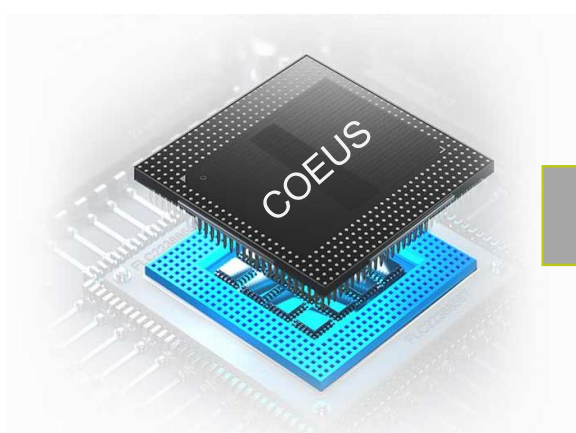
Electronic design



Working Solutions



- 1) 5H Full bright+ 25% Sensor 100%
- 2) 25% Sensor+100% All nights
- 3) 5H Fullbright+25%Dim until dawn

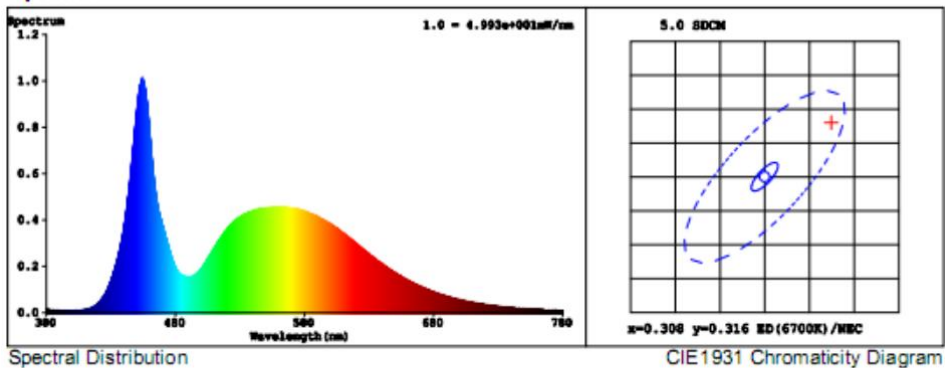


USA Chips and Program

- Intelligent
- Self-Detection
- Protection Setting
- Energy Saving
- Safety
- Stabilizing

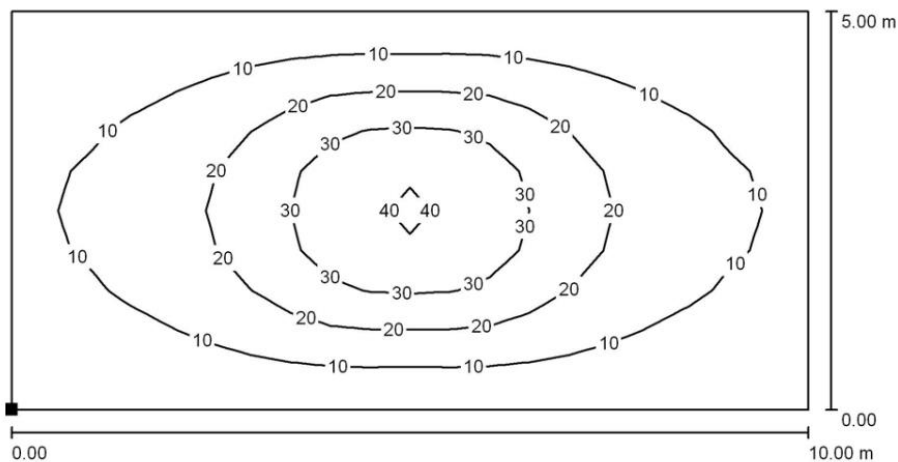
Optical Figure

Spectrum



Colorimetric Parameters

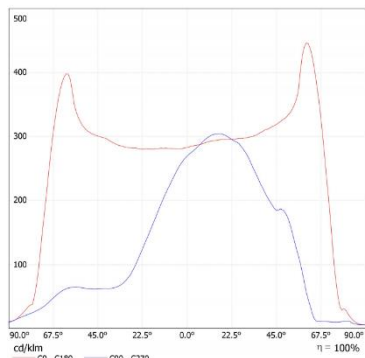
Chromaticity Coordinate: $x = 0.3154$ $y = 0.3240$ / $u' = 0.2016$ $v' = 0.4660$ ($duv = -7.85e-04$)
CCT= 6390K Prcp WL: $\lambda_d = 484.7\text{nm}$ Purity=6.8%
Peak WL: $\lambda_p = 454\text{nm}$ FWHM: $\approx 21.6\text{nm}$ Ratio: R=13.4% G=81.6% B=5.0%



Values in Lux, Scale 1 : 72

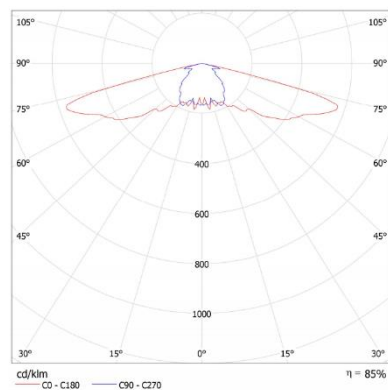
/ LDC (Linear)

Luminaire:
Lamps: 1 x

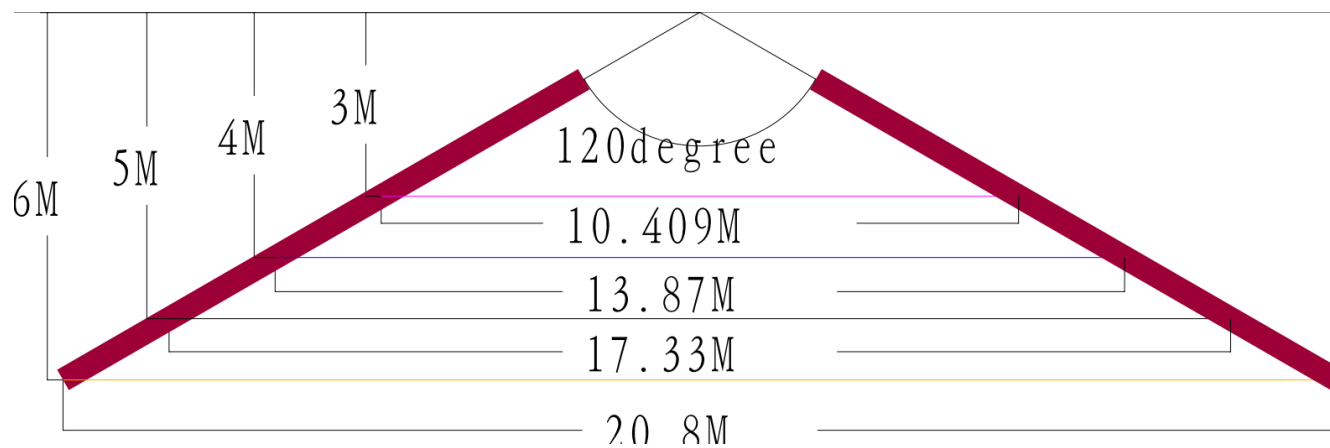
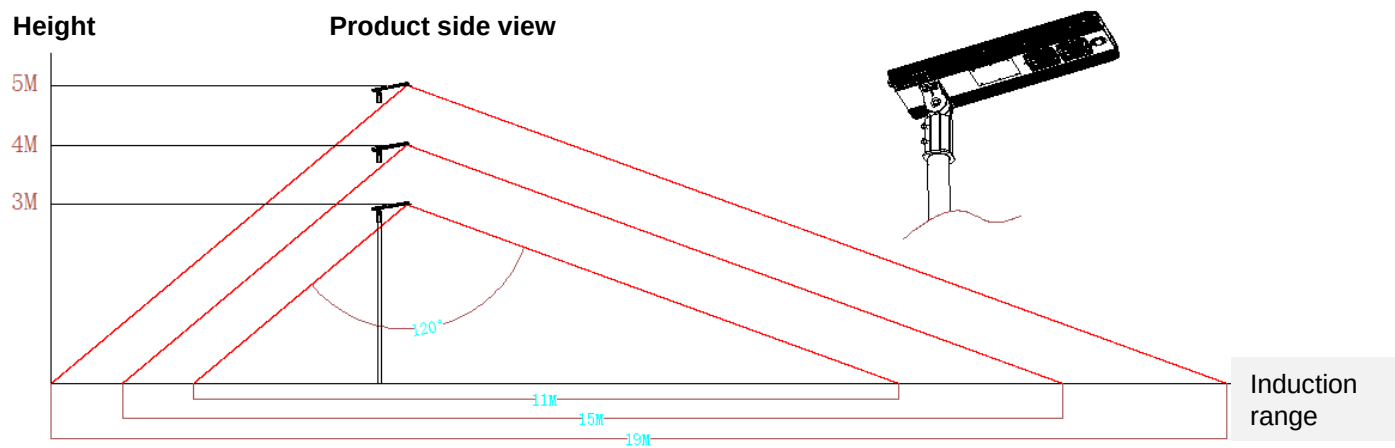


/ LDC (Polar)

Luminaire:
Lamps: 1 x

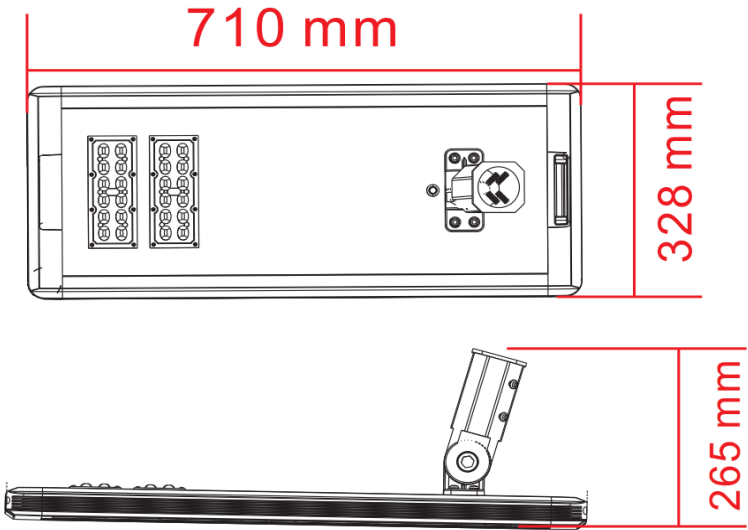


Mounting Height and PIR Profile



Product Dimension

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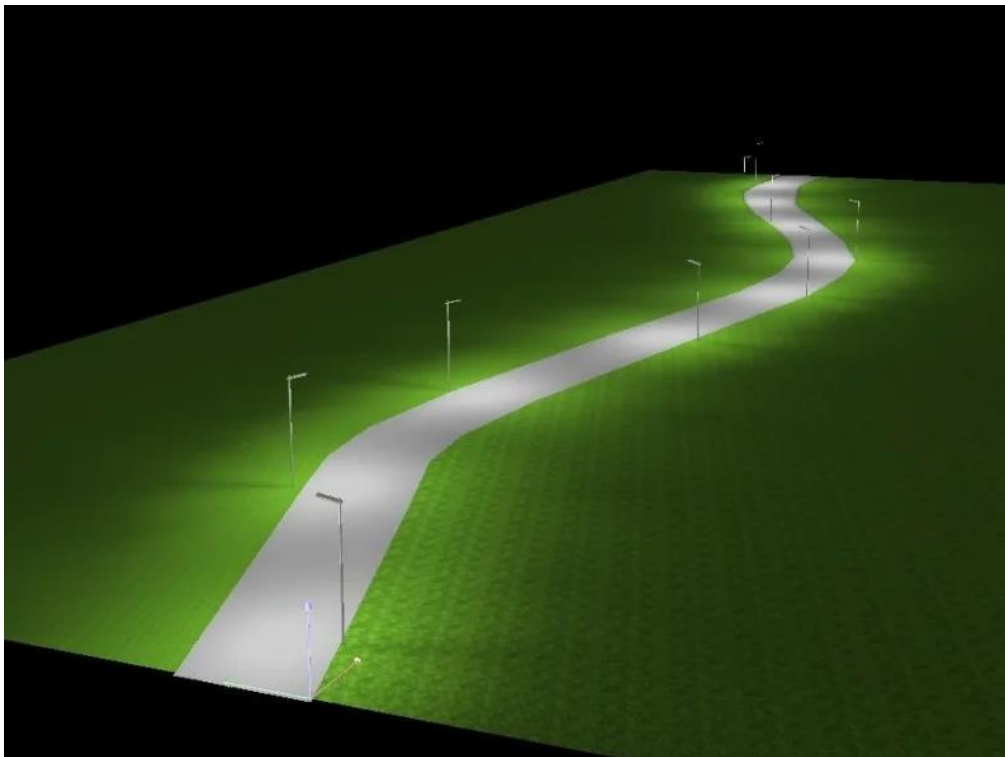
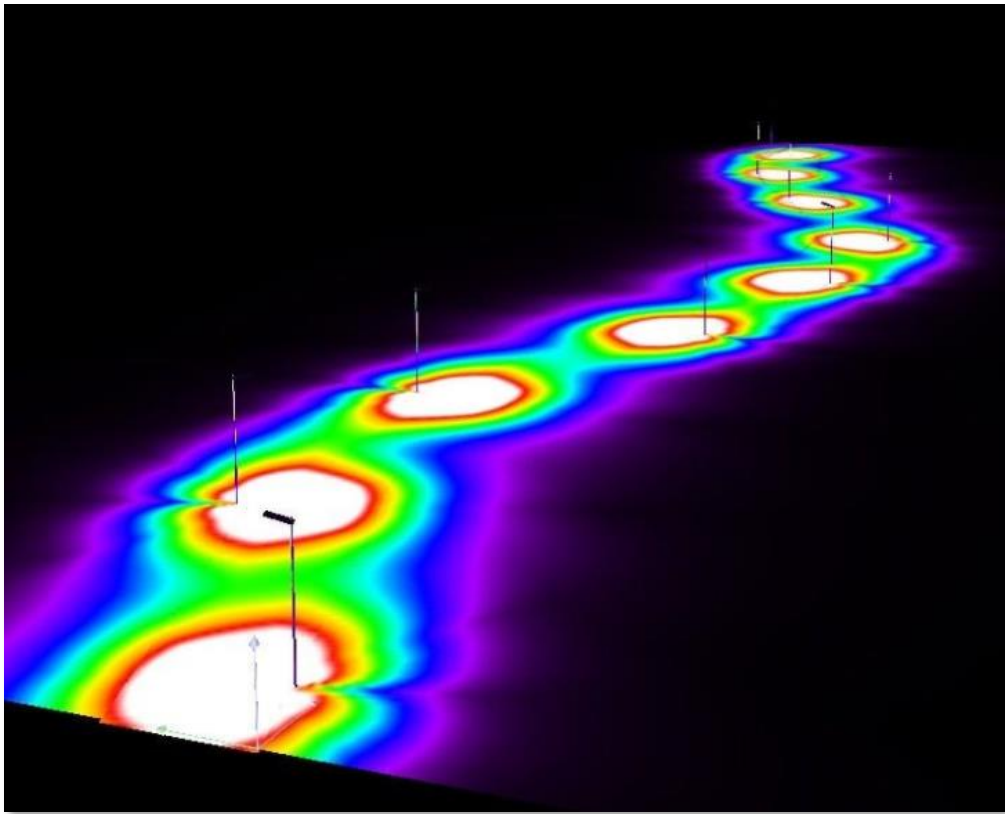


370*276mm

610*276mm

800*276mm

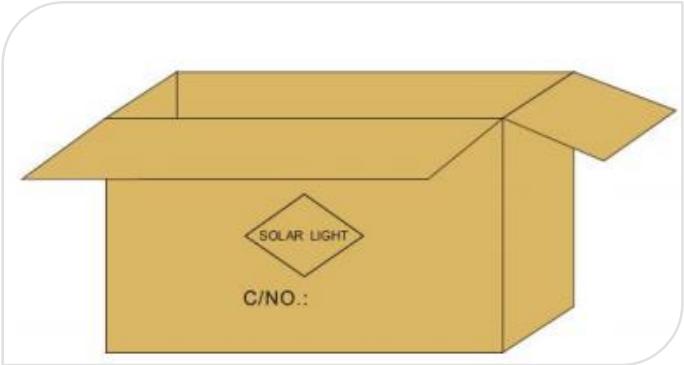
3D Photometric Simulation



Packing details



Pearl cotton for protection



5-layer corrugated paper

	ELS-32P	ELS-33P	ELS-34P	ELS-35P	ELS-36P	ELS-37P	ELS-38P	ELS-39P	ELS-310P
Packing details	1PC/CTN	1PC/CTN	1PC/CTN	1PC/2CTN	1PC/2CTN	1PC/2CTN	1PC/2CTN	1PC/2CTN	1PC/2CTN
Ctn Size (CM)	60*40*20	81*40*20	100*40*20	112*40*13 42*20*22	112*40*13 42*20*22	112*40*13 42*20*22	158*40*13 42*20*22	158*40*13 42*20*22	158*40*13 42*20*22
Gross weight	6KG	8KG	10KG	11kg	12kg	13kg	17kg	19kg	20kg
20GP load	580pcs	430pcs	350pcs	350pcs	350pcs	350pcs	280pcs	280pcs	280pcs
40GP load	1200pcs	890pcs	725pcs	725pcs	725pcs	725pcs	580pcs	580pcs	580pcs
40HQ load	1410pcs	1000pcs	850pcs	850pcs	850pcs	850pcs	680pcs	680pcs	680pcs

