

POWER

ECO

LED CATALOG
2021

JAPAN



PEJ
POWER ECO JAPAN

LED projector for high temperature

HD200 HD150 HD100



LED flood light suitable for high temperature 135°C

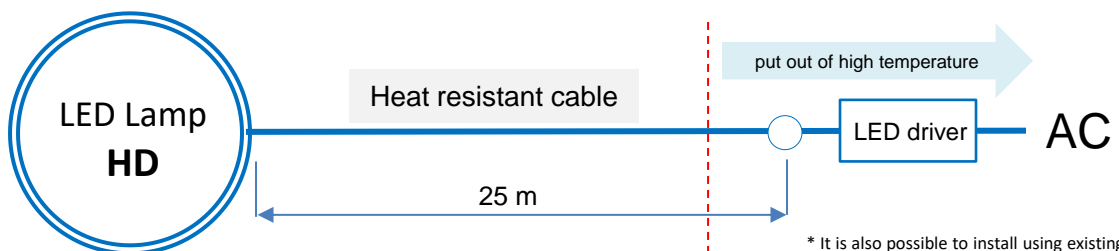
Application: Automobile factory, paper mill, steel factory, environmental test room, thermostatic chamber, Robodrill, sewerage facility, etc



Can withstand high temperatures of 135°C

Using high temperature resistance components, and lower the LED junction temperature by special design, enabling the use in high temperature environment by suppressing the deterioration of the LED.

*External LED driver must be put out of high temperature environment.



* It is also possible to install using existing wires.
(Refer to the product specifications for details)

■ Replace HID 300-700W

By using high efficiency LED 120 lm / W, it can be replaced to conventional HID lamp 300-700 W with low power consumption.

■ Front cover: Tempered Glass

Tempered glass does not discolor by ultraviolet rays, oil and salt.

■ Wide beam angle

Wide beam angle can illuminates a wide range uniformly, so it is suitable for high ceiling factories and warehouses.

■ High humidity environment use, Dew condensation prevention

Using a breather, the ventilation is done for preventing condensation.
Suitable for using in high humidity environment (95%)

HD series line-up

Type	Model no.	Power	Luminous flux	Operating temperature	Replacement
HD100	HD100	100W	12000lm	-40℃~+50℃	HID400W
	HD100-HT60	90W	10800lm	-40℃~+60℃	HID350W
	HD100-HT80	75W	9000lm	-40℃~+80℃	HID350W
	HD100-HT100	55W	6600lm	-40℃~+100℃	HID250W
	HD100-HT120	35W	4200lm	-40℃~+120℃	HID120W
	HD100-HT135	30W	3500lm	-40℃~+135℃	HID120W
HD150	HD150	150W	18000lm	-40℃~+50℃	HID600W
	HD150-HT60	135W	16200lm	-40℃~+60℃	HID600W
	HD150-HT80	110W	13500lm	-40℃~+80℃	HID500W
	HD150-HT100	80W	9900lm	-40℃~+100℃	HID350W
	HD150-HT120	60W	7200lm	-40℃~+120℃	HID250W
	HD150-HT135	45W	5400lm	-40℃~+135℃	HID200W
HD200	HD200	200W	24000lm	-40℃~+50℃	HID700W
	HD200-HT60	180W	21600lm	-40℃~+60℃	HID700W
	HD200-HT80	150W	18000lm	-40℃~+80℃	HID600W
	HD200-HT100	110W	13200lm	-40℃~+100℃	HID500W
	HD200-HT120	80W	9900lm	-40℃~+120℃	HID350W
	HD200-HT135	60W	7200lm	-40℃~+135℃	HID300W

Optional

Chemical resistance paint

Adding special surface coating excellent in chemical resistance makes it suitable for use in chemical plants.

Glare measures

By replacing the tempered glass on the front with frosted glass, glare is reduced, so that it is not dazzling even when looking directly. *Changing to frosted glass will lower the illuminance slightly.

Can be used with AC 400V

Compatible with input voltage of AC400V. (Standard model is AC100V-240V)

Other options

- Cable extension … 25m cable is included as standard, but 50m and 100m cables are available upon request.
- Color temperature … Can be changed to warm color (3000K).

Input voltage	AC100-240V	Humidity	15~90% RH
Frequency	50/60Hz	IP code	IP65
LED	Philips Lumileds	Materials	Body: Aluminum / Front: Tempered glass
Color temp.	3000K / 5000K	Size	φ 400 × 240mm
Beam angle	120°	Weight	6.4kg
Lifetime	60000 hours *		

*Expected life when used within the operating environment temperature described in the specifications. If the operating environment temperature is exceeded, the service life will be significantly shortened.

+135°C high temperature ambient use!



Best LED Lighting PH-T series

High temperature, high humidity, oil resistance, vibration proof, chemical resistance

Application: Automobile factory, paper mill, steel factory, environmental test room, thermostatic chamber, Robodrill, sewerage facility, etc

 286*108*204mm 3.0 kg PH-T12	 286*177*204mm 4.0 kg PH-T24	 317*286*267mm 7.0 kg PH-T48	 602*556*77mm 16.5 kg PH-T300
 457*286*267mm 9.0 kg PH-T72	 737*286*267mm 13.0 kg PH-T120		

PH-T series

Model number suffix Blank:60°C -HT80:80°C -HT90:90°C -HT100:100°C -HT135:135°C

Type	Model	Power	Lumes	Replacement
PH-T12	PH-T12	15W	1530lm	Light bulb 100W
	PH-T12-HT80	12W	1200lm	Light bulb 80W
PH-T24	PH-T24	30W	3060lm	HID 150W
	PH-T24-HT80	24W	2450lm	HID 120W
	PH-T24-HT90	21W	2150lm	Tube lamp 40W
	PH-T24-HT100	18W	1840lm	HID 120W
PH-T48	PH-T48	57W	6200lm	HID 250W
	PH-T48-HT80	46W	4960lm	HID 200W
	PH-T48-HT90	40W	4340lm	HID 150W
	PH-T48-HT100	35W	3720lm	Tube lamp 40Wx2
	PH-T48-HT135	22W	2400lm	HID 120W

Type	Model	Power	Lumens	Replacement
PH-T72	PH-T72	84W	9200lm	HID 350W
	PH-T72-HT80	67W	7360lm	HID 300W
	PH-T72-HT90	59W	6440lm	HID 250W
	PH-T72-HT100	50W	5520lm	HID 200W
	PH-T72-HT135	32W	3580lm	HID 150W
PH-T120	PH-T120	135W	15300lm	HID 500W
	PH-T120-HT80	108W	12200lm	HID 400W
	PH-T120-HT90	94W	10700lm	HID 350W
	PH-T120-HT100	80W	9200lm	HID 350W
	PH-T120-HT135	52W	5970lm	HID 250W
PH-T300	PH-T300-HT60	210W	26000lm	HID 700W
	PH-T300-HT80	180W	22300lm	HID 600W
	PH-T300-HT100	150W	18600lm	HID 500W
	PH-T300-HT135	100W	12400lm	HID 400W

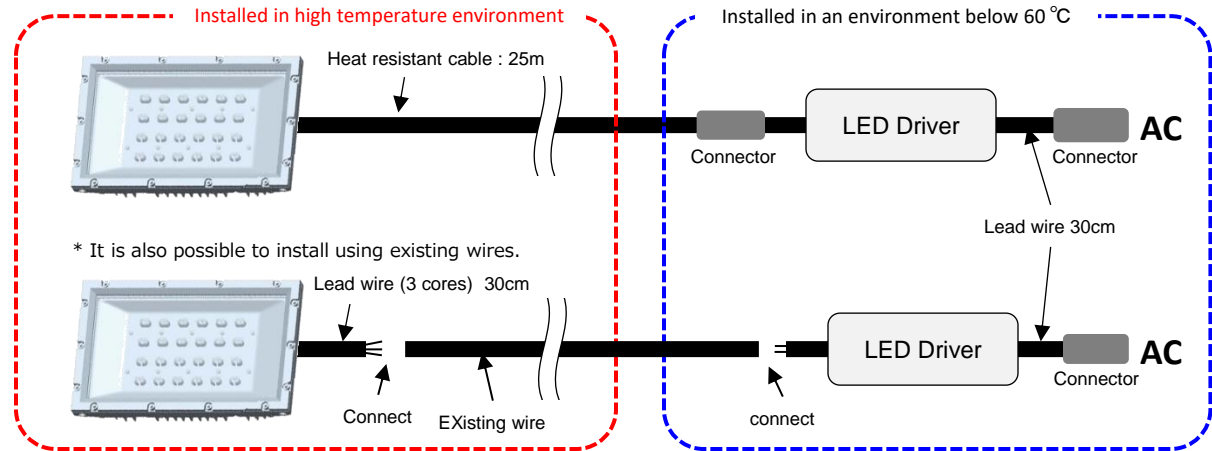
SPECIFICATIONS

Input voltage	AC100-240V	Lifetime	60000 hours (-HT135: 20000 hours) *Expected life when used within the operating environment temperature described in the specifications. If the operating environment temperature is exceeded, the service life will be significantly shortened.
Frequency	50/60Hz		Working temperature
Color temp.	6000K		
IP code	IP67/IP66		
Shock resistance	4G vibration resistance, 40G shock resistance		
Materials	Body: Aluminum / Cover: Tempered glass		

Can withstand high temperatures of 135°C

Using high temperature resistance components, and lower the LED junction temperature by special design, enabling the use in high temperature environment by suppressing the deterioration of the LED.

*External LED driver must be put out of high temperature environment.



■ Excellent shock resistance

PH-T has 4 G vibration resistance and 40 G shock resistance!
Suitable for using in violent vibration or hoist crane.

■ High humidity environment use, Dew condensation prevention

Using a breather, the ventilation is done for preventing condensation.
Suitable for using in high humidity environment (95%)

■ Front cover: Tempered Glass

Tempered glass does not discolor by ultraviolet rays, oil and salt.

■ IP67/IP66 Water-proof

No ingress of dust; complete protection against contact (dust tight)
Ingress of water in harmful quantity shall not be possible when the enclosure is immersed in water under defined conditions of pressure and time (up to 1 m of submersion).

■ Chemical resistance paint (optional)

Adding special surface coating excellent in chemical resistance makes it suitable for use in chemical plants.

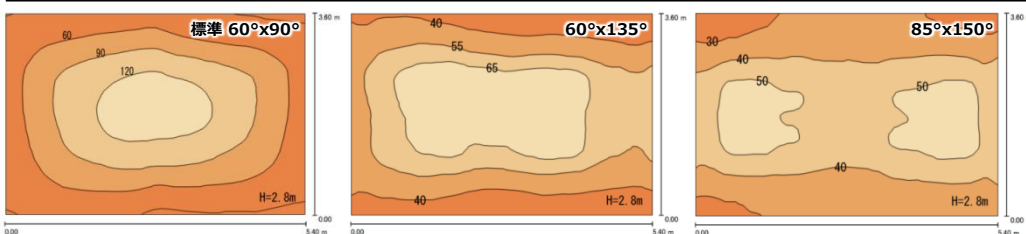
■ Glare measures

By replacing the tempered glass on the front with frosted glass, glare is reduced, so that it is not dazzling even when looking directly. *Changing to frosted glass will lower the illuminance slightly.

■ Beam angle option

Choose cone angle from 3 types of 60°x90°(standard), 60°x135° or 85°x150°

Illuminance distribution sample (PH-T24-HT80)



■ Other options

- Cable extension ... 25m cable is included as standard, but 50m and 100m cables are available upon request.
- Anti-fall wire ... Anti-fall wire is not included as standard, but can be provided as optional.
- Color temperature ... Can be changed to warm color (3000K).

Gantry crane lighting

aquarium lighting
 wharf (container yard) lighting
 airport apron lighting



LED projector PH-T300S/450S

Application: Gantry crane lighting, aquarium lighting, wharf (container yard) lighting, airport apron lighting, Lighting up for castle, world Heritage, etc

PH-T300S/450S is a large-sized LED projector equivalent to HID 700-1500W.

Features: heavy salt resistant, wind speed of 70 m / s, waterproof IP66, shock resistance, vibration proof

PH-T300S / 450S can withstand use under harsh environmental conditions like installation on a gantry crane!

Tempered glass

Discoloration like plastic will not occur.

Lamp body

Durable body made by aluminum die casting can be used in high temperature / high humidity environment. IP66

LED lens

Choose from 8 kinds of lenses according to the application.

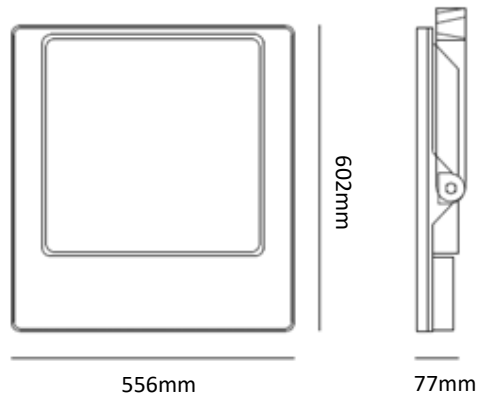
Bracket

Bracket with durable design that can easily be adjusted.

- Withstand load of 80 kg,
- Wind speed of 70 m/s

Type	HID 700W-1000W	HID 1000W-1500W
Model no.	PH-T300S	PH-T450S
Power	300W	450W
Lumens	37200lm	54000lm
Input voltage	AC100-240V 50/60Hz	
Color temp.	6000K / 3000K	
Working temp.	-40°C - 50°C	
Lifetime	50000 hours	
Materials	Aluminum, Tempered glass	
Weight	16.5 kg	
IP code	IP66	

Dimensions



FEATURES

■ Wind resistance, Vibration resistance, Impact resistance

Wind resistance 70 m / s, vibration resistance 4 G, shock resistance 40 G, by using a strong mounting bracket with a thickness of 6 mm. It can also be used for harsh conditions with crane installation!

■ Heavy salt tolerance (chemical resistant)

Due to special surface painting excellent in heavy salt tolerance and chemical resistance, it can also be used in salt damage areas, chemical plants, etc.

■ High humidity environment, condensation prevention structure

By using a ventilation valve, ventilation inside the equipment is carried out to prevent dew condensation. Of course, there is no problem in using in a high humidity environment.

■ IP66 for outdoor use

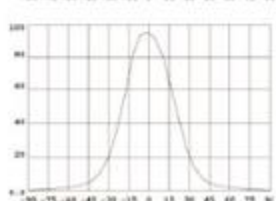
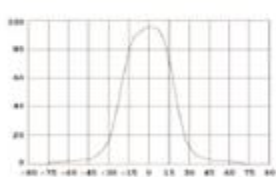
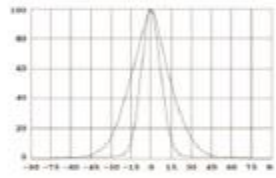
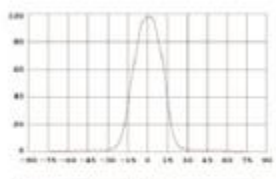
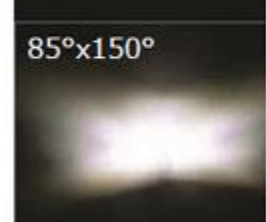
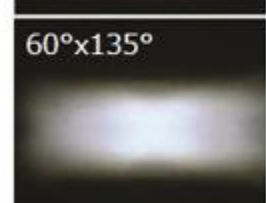
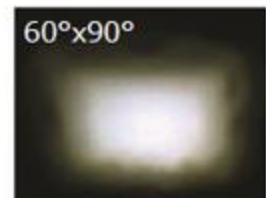
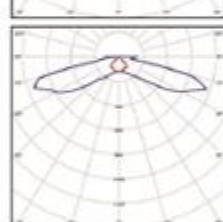
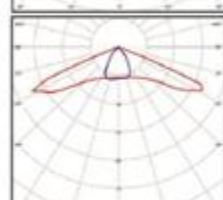
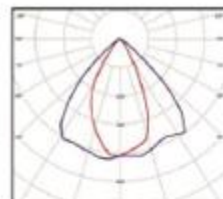
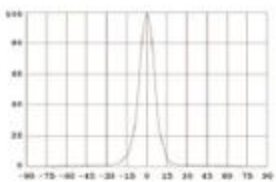
Dustproof and waterproof performance is IP66. It is a perfect dustproof structure and a waterproof structure that does not flood even in strong direct jet water from all directions. Suitable for outdoor use.

■ Tempered glass on the front cover

Tempered glass is no discoloration due to oils. Synthetic resins such as polycarbonate are yellowed with ultraviolet rays, oils, salt, etc., and the illuminance deteriorates.

■ Eight kinds of irradiation angles from narrow to wide

Choose from the narrow angle 25 degree type which is suitable for lighting up to the wide 85×150 degree type which can be used for road lighting according to the application.



LED Street and road lighting PH-ST SERIES



FEATURES

- Suitable for straight pole and arm pole due to spigot
- Pole size: $\phi 40-60\text{mm}$
- Easy installation due to built-in driver
- IP66 water-proof, salt tolerance paint



SPECIFICATIONS

Input voltage	AC100-240V
LED	CREE
Color temperature	3000K / 4000K / 5000K / 6000K
Lifetime	70,000 hours

Materials	Aluminum, Tempered glass
Working temperature	-40°C - +50°C
IP code	IP66
Pole size	$\phi 40 \sim 60\text{mm}$



Model no.	PH-ST28/20W	PH-ST28/30W	PH-ST28/40W	PH-ST28/50W
Input voltage	AC100~240V 50/60Hz			
Power	20W	30W	40W	50W
Lumens	2,000lm	3,000lm	4,000lm	5,000lm
Size	500(L)x240(W)X120(D) mm			
Weight	6.6 kg			



Model no.	PH-ST49/60W	PH-ST49/80W	PH-ST49/100W	PH-ST49/120W
Input voltage	AC100~240V 50/60Hz			
Power	60W	80W	100W	120W
Lumens	6,000lm	8,000lm	10,000lm	12,000lm
Size	600(L)x350(W)X135(D) mm			
Weight	11.0 kg			



Model no.	PH-ST91/140W	PH-ST91/160W	PH-ST91/180W	PH-ST91/200W
Input voltage	AC100~240V 50/60Hz			
Power	140W	160W	180W	200W
Lumens	14,000lm	16,000lm	18,000lm	20,000lm
Size	800(L)x350(W)X135(D) mm			
Weight	11.9 kg			



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