



**PAK GERMAN
ENGINEERS**

- Traffic System
- Automation System
- Solar & LED System
- Security System
- Road Safeties
- Consultancies

1. PG Series, LED Traffic Lights:



PGE offers poly carbonate signal visors to increase signal visibility in sunlight.

* Visors and brackets accompany the traffic lights along with the standard shipment.

Developed over the past few decades by Pak German Engineer and its partners engineering and technical teams in Pakistan and China, PGE PG-Series, LED traffic lights combines the functionality of old fashioned incandescent bulb standard traffic light with enhanced power savings of latest technologies of LED Lighting solutions.

The PG Series HI-Flux traffic lights can be provided in a variety of arrangements and sizes, subject to legislative requirements and the clients need.

Our PG SERIES traffic lights 200mm / 300mm made of UV-stabilized polycarbonate are highly resistant to unfavorable weather conditions and mechanical stress. The worldwide proven housing type supports different light sources such as LEDs and electrical specifications such as high and low voltage. With its optical system being specifically adapted to each lamp type, these traffic lights always achieve optimum light intensity.

PG SERIES will suit you if you are looking for a universal, modular, ageless, robust and durable traffic light solution for your applications.

PGE Pakistan (Head Office):

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Customer Support:

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Email: pdm@pgepakistan.com.



2. PG Series, Hi-Flux LED Traffic Light

PRODUCT Images:



▲ KEY FEATURES

- Highly efficient LEDs enhance power savings
- Dimming function allows even further power savings
- Architecturally robust design
- The separate system controller is fully-SCATS compatible
- Available in 12 / 24V DC & 110 / 230V AC working voltages
- Modular, Vandal-proof design
- Suitable for inductive loop sensors
- Dust-proof, IP65 rated
- Also available in 100 and 300mm diameter specification



EN12368 & CE Approved

Red, Yellow & Green LED Traffic Light Modules:

PGE high flux traffic signal light modules are energy-efficient products and systems that are primary for smooth and safe vehicular as well as pedestrian movement.

These are high quality and maintenance-free with clear visibility in all-weather & all-light conditions.

Features & Benefits:

- Conform to EN12368 standard.
- Highest anti-phantom performance (class 5).
- Wide viewing angles & low power consumption
- No LED dots visible, very uniform signal glow – high power led.
- Compatibility with most traffic housings and controllers.
- Standard or customized symbols can be supplied on cut plastic masks. The mask is mounted inside the outer lens or supplied to customers separately.
- Color and colorless less options are available.

MODULE COMPOSITION:



1. outer lens:-
2. mask(for symbol lamp):-
3. fresnel lens:-
4. power supply:-
5. LED board and heat dissipation board:-
6. back cover:-



TECHNICAL SPECIFICATIONS:

No.	Model:	PG/HF-300-R/Y/G-3A	PG/HF -200-R/Y/G-3A
1	Size (Module dia.):	300mm; 12 inch.	200mm; 8 inch.
2	Aspects arrangement:	1 / 2 / 3 / as per requirement.	
4	Housing Material:	Polycarbonate, UV-light-resistant.	
5	Fixing Bracket	Metal/ Plastic Brackets.	
6	Sun visor:	Poly carbonate visor with screw fitting for enhance visibility in Sun light.	
7	Phantom class:	> 3	
8	Color:	Red, Yellow, Green.	
9	Light Source:	Central Light Source (Optic LED).	
10	Optical Lens:	Fresnel Lens.	
11	Impact resistance:	IR3 (Compliance with EN60598-I).	
12	Luminous Intensity (cd):	R > 800 cd, Y > 800 cd, G > 800 cd.	
13	Luminance Uniformity:	Lmin: Lmax <1:10.	
14	Wavelength:	Red: 620~630 nm, Yellow: 590~595 nm, Green: 500~510 nm.	
15	Power Consumption:	R ≤ 11W Y ≤ 12W G ≤ 11W.	R ≤ 8W Y ≤ 9W G ≤ 8W.
16	Viewing Angle:	Compliance with the ± 30° requirement as per EN12368:2006. (L/R-30° U/D-30°)	
17	View Distance:	≥ 500 m	
18	THD:	<20%	
19	Switch on time	≤ 75 ms	
20	Rated Temperature:	Between -45°C and 74°C.	
21	Operation Voltage:	110 V AC / 220 V AC / 12 VDC / 24 V DC / 42 V AC.	
22	Frequency:	50/60HZ	
23	Power Factor:	> 90%	
24	Module material:	Polycarbonate (PMMA) – UV resistant, Optical Lens showing a very good color uniformity.	
25	Life Span:	>85,000 hours (9-10 years of continuous Light).	
26	Warranty:	2 Years.	
27	IP Grade:	Module: IP65 - compliant to IEC 60529:1989; Body: IP-54	
28	Certifications:	CE, ISO9001, EN-12368 & RoHS certified.	

Reference Images:





3. PG Series, Hi-Intensity LED Traffic Lights

PRODUCT Images:



Red, Yellow & Green HI-Intensity LED Traffic Lights:

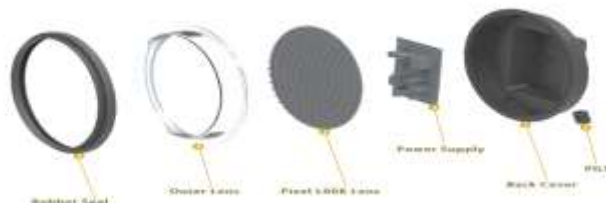
PGE high Intensity traffic signal light modules are energy-efficient products and systems that are primary for smooth and safe vehicular as well as pedestrian movement.

These are high quality and maintenance-free with clear visibility in all-weather & all-light conditions.

Features & Benefits:

- Wide viewing angles & low power consumption
- Compatibility with most traffic housings and controllers.
- Standard or customized symbols can be supplied with 5mm LED Lights.
- Colorless Glass lens for high visibility.

MODULE COMPOSITION:





TECHNICAL SPECIFICATIONS:

No.	Model:	PG/HI-300-R/Y/G-3A	PG/HI -200-R/Y/G-3A
1	Size (Module dia.):	300mm; 12 inch.	200mm; 8 inch.
2	Aspects arrangement:	1 / 2 / 3 / as per requirement.	
4	Housing Material:	Polycarbonate, UV-light-resistant.	
5	Fixing Bracket	Metal/ Plastic Brackets.	
6	Sun visor:	Poly carbonate visor with screw fitting for enhance visibility in Sun light.	
7	Phantom class:	> 3	
8	Color:	Red, Yellow, Green.	
9	Light Source:	5mm LED.	
11	Impact resistance:	IR3 (Compliance with EN60598-I).	
12	Luminous Intensity (cd):	R>200cd, Y>400cd, G>220cd	
14	Wavelength:	Red: 620~630 nm, Yellow: 590~595 nm, Green: 500~510 nm.	
15	Power Consumption:	R ≤ 11W Y ≤ 12W G ≤ 11W.	R ≤ 8W Y ≤ 9W G ≤ 8W.
16	Viewing Angle:	Compliance with the ± 30° requirement as per EN12368:2006. (L/R-30° U/D-30°)	
17	View Distance:	≥ 500 m	
19	Switch on time	≤ 75 ms	
20	Rated Temperature:	Between -45°C and 74°C.	
21	Operation Voltage:	110 V AC / 220 V AC / 12 VDC / 24 V DC / 42 V AC.	
22	Frequency:	50/60HZ	
23	Power Factor:	> 90%	
24	Module material:	Polycarbonate (PMMA) – UV resistant, Optical Lens showing a very good color uniformity.	
25	Life Span:	>85,000 hours (9-10 years of continuous Light).	
26	Warranty:	1 Years.	
27	IP Grade:	Module: IP54 ; Body: IP-54	
28	Compliance:	CE, ISO9001, EN-12368 & RoHS compliant.	

Reference Images:

