



GKM

ENLIGHTENING THE WORLD



कर लो रोशन जहाँ GKM Solar के संग



☎ 1800 313 2001

🌐 www.gkmenergy.com



About Us



GKMinda

GKM stands as a testament to the vision and dedication of its founder, **Mr. Gaurav Minda**, a seasoned professional with an extensive **25-years journey** in the realm of solar and renewable energy. His profound expertise and insight have been pivotal in shaping **GKM's** trajectory, infusing it with innovation and sustainability at its core.

THE LEADING NAME IN SOLAR ENERGY



**50000+ Electric
Scooter Sold**

**200 MW Solar
Plant Installed**



**1.5 Lakhs Solar Street
Light Installed**



THE FUTURE OF SOLAR WITH GKM

At “GKM Energy Pvt. Ltd.,” our mission is to empower communities and individuals with sustainable energy solutions. We're dedicated to pioneering innovative solar technologies, delivering exceptional service, and fostering a brighter, cleaner future for generations to come.



Empowerment: Empowering customers to take control of their energy usage and environmental impact.



100 % Customer Satisfaction: Our commitment to customer Satisfaction on drives every aspect of our business.



Social Responsibility: Contribute to the social and physical environment through green energy products.



Empowerment



**Eco-
Enlightenment**



Support

2024

Supplied 5000 Solar High Mast Lights for Navratan Companies

2023

- ✓ Supplied 10000 LEDs Light to UREDA
- ✓ Supplied LEDs Light to Jewar Airport in Collaboration on with TATA

2022

- ✓ Supply done in BREDA 5000 LED Lights and 1 Lakh Lithium Batteries
- ✓ Supplied High Mast Tower to L&T

2021

Manufacturing Unit of Electrical 3 Wheeler

2020

Installed 1 MW in HIMURJA

2015

Started Manufacturing of
LEAD Acid Battery

2016

Manufacturing Plant of
Lithium Battery

2014

Structure Fabrication
Manufacturing of Fancy &
Octagonal Poles,

2018

- ✓ Manufacturing Unit of Electrical 2
Wheeler Supplied 10000 LEDs Lights to
- ✓ ONGC Supplied 3500 LEDs Light to NSIC

2013

Established Manufacturing Unit of Solar LEDs

2012

Working Experience in 35
Countries, Africa Region



2002

Incorporation of GKM Energy Pvt. Ltd. by
Mr. Gaurav Minda Started Bio Gas Bottling
Plant in Hisar (2500 CBM per day capacity)

Our Journey

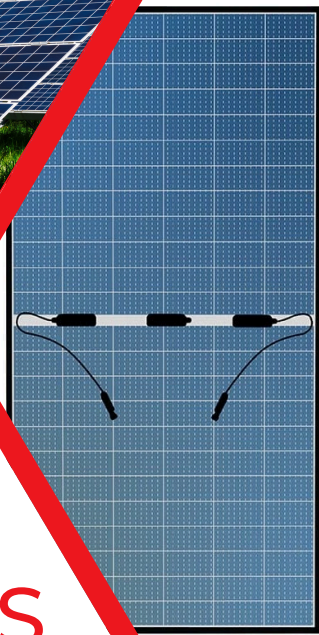
Global to Local

SOLAR MODULES

POLY PANEL

TOP CON PANEL

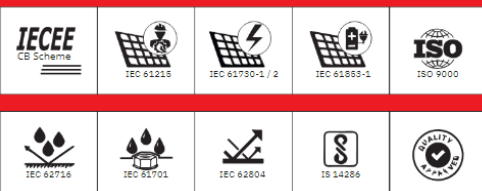
MONO PANEL



FEATURES

- Anti Reflective (AR) Coating Glass
- Positive Power Tolerance Up to 5W
- PID (Potential Induced Degradation) Free
- LID (Light Induced Degradation) Free
- Fully Automatic Robotic Plant
- IP68 Junction Box Protection
- Excellent Module Efficiency

PRODUCT CERTIFICATES



Poly Panel

Flexible Panel

Mono- PERC Panel

Mono Half-Cut Panel

Bifacial Panel

TopCon Panel



**Domestic Roof Top
On-Grid & Off Grid**



Solar Water Pump



COMMERCIAL SOLAR PARK



SOLAR ATTA CHAKKI

GKM PurePower (Solar Home PCU)

FEATURES

- AI Based Controller.
- Pure Sine Wave Output With Low THD.
- Low Standby Power Consumption.
- Charging in Deep Discharge.
- LCD/LED Display
- Built-In UPS/IT Mode.
- Designed For Continuous Reliable and Robust operations.
- Different Battery Selections Mode to Enhance Battery Life.
- Double Stage MOSFET Over Current Protection.
- Priority Selection Mode (Hybrid, PCU Lite, PCU Ultra).



AVAILABLE RANGE 1 - 5 kVA



TECHNICAL SPECIFICATIONS

GKM PurePower (Solar Home UPS)

Parameters					Rating									
System Model Name					PurePower 1212		PurePower 1825		PurePower 2525		PurePower 3025		PurePower 5048	
Capacity					1050 VA		1600 VA		2500 VA		3000 VA		5000VA	
Operating DC Voltage					12 V		24 V		24 V		24 V		48V	
Switching Element					Mosfet									
Display Type					LCD									
Parameters					Default Value					Default Value				
Nominal Grid Voltage					230V									
Nominal Frequency					50Hz									
Frequency Range					45-55 Hz ± 1 Hz									
Battery Charging Method 4 Stage					Bulk/Absorption/Float/Equalize									
Grid - Battery Charging		TUB (Default)	Boost		14.4V ± 0.2V (Each Battery)									
			Float		13.8V ± 0.2V (Each Battery)									
Grid - Battery Charging		SMF	Boost		14.2V ± 0.2V (Each Battery)									
			Float		13.8V ± 0.2V (Each Battery)									
Grid - Battery Charging Current		Enable	Default		12A ± 1A		15A ± 1A							
			Maximum		12A ± 1A		18A ± 1A							
		Disable	Normal/Boost		Charging Current 0.0A									
Grid Reconnect @ Battery Voltage					11.7V ± 0.2V (Each Battery)									
Grid Low Cut Voltage		UPS Mode Enable			170V ± 10V									
		UPS Mode Disable			100V ± 10V									
Grid Low Cut Recovery		UPS Mode Enable			180V ± 10V									
		UPS Mode Disable			110V ± 10V									
Grid High Cut Voltage		UPS Mode Enable			265V ± 10V									
		UPS Mode Disable			290V ± 10V									
Grid High Cut Voltage		UPS Mode Enable			255V ± 10V									
		UPS Mode Disable			280V ± 10V									
Changeover (Batt. To Mains)		UPS Mode Enable/Disable			<6ms/<6ms									
Changeover (Mains To Batt.)		UPS Mode Enable/Disable			<6ms/<30ms									
DG Mode		Enable/Disable			Disable									
Parameters (Battery Mode)														
Output Phase					1 Phase									
Output Waveform					Sinewave									
Nominal Output Voltage					220V ± 5%									
Discharging Current					55A ± 2A		50A ± 2A		72A ± 2A		92A ± 2A		120A ± 2A	
Nominal Frequency					50Hz ± 1%									
Battery Low Buzzer					10.8V ± .02V (Each Battery)									
Battery Low Cut					10.5V ± .02V (Each Battery)									
Battery High Cut					16.5V ± .02V (Each Battery)									
Parameters (Battery Mode)														
Voltage Harmonic					< 3% (Linear Load)									
Over Load Capacity					UPS Mode Disable		>110% 3-Times Auto Reset with 30Sec0. Delay and 4th Time Shut Down							
					UPS Mode Enable		>110% 1st Time Shut Down after 30 Sec Delay.							
					>150% Output Goes Down									
Protection					Overload, Battery Low, Battery High, Over Temperature, Short Circuit, PV Reverse, PV High, Mains Fuse Trip, Grid Overload									
Parameters (Solar)														
Switching Element					Mosfet									
Operating Mode/PCU/LITE/PCU ULTRA					Hybrid									
Type of Charger				PWM										
SPV Charging Voltage		TUB	Boost		± .02V (Each Battery)									
			Float		± .02V (Each Battery)									
SPV Charging Voltage		SMF	Boost		± .02V (Each Battery)									
			Float		± .02V (Each Battery)									
Efficiency				≥ 97%										
Solar Current MIN.					>1A (Below 1A, System will act like Solar Absent)									
Solar Current MAX.					30A		50A		55A		75A		70A	
Input Voltage Range (Max) Voc					25V		45V		54V		54V		172V	
Maximum PV Power Recommended					900W		1800W		2000W		2400W		4000W	
Parameters (Environment)														
Operating Temperature					0 - 50°C									
Cooling					Fan									
Max. Relative Humidity @25°C (Non Condensing)					95%									
Noise @ 1 Meter					50dB									
Standard Compliance					Ip20									

*Specification are subject to change without prior notice due to constant improvement in design & technology.



GKM SunSpark

(Single Phase Solar PCU)



AVAILABLE RANGE 1 - 15 kVA

- Multi Channel Interleaved MPPT Technology.
- Maximum Utilization of Solar Panel.
- Low Light Performance.
- Overload and Overvoltage Protection.
- Energy Management Features.
- Works As Standalone Solar Inverter In Case of No Grid.
- 40% Less Panel Required Than Other PCUs.
- Efficiency 99.5%.



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TECHNICAL SPECIFICATIONS



GKM SunSpark (Solar PCU 1Ph in 1Ph out)

Parameters		Unit									
Model		Sungreen Max									
Operating DC voltage		1KVA	2KVA	3KVA	5KVA	5KVA	7.5KVA	10KVA	10KVA	15KVA	
System Capacity		12	24	48	48	96	96	120	180	192	
Battery Capacity (Min / Max)		KW	0.8	2	2.8	4	4	6	8	12	
Battery Capacity (Min / Max)		AH									
		100-250									
		SPV Parameters									
SPV Open Circuit Voltage Range (Min / Max)		Volts	18-50	36-100	72-200	72-200	144-400	144-400	180-450	270-450	360-600
Max SPV Power		KW	1	2.5	3.5	5	5	7.5	10	10	15
Solar Charge Controller Rating		A	60	70	70	70	60	60	70	60	60
Compatible SPV Panels		36/60/72 cell									
		MPPT Basted Charge Controller									
Switching Element		Mosfet			IGBT Module						
Controller		DSP									
Type of Charger		MPPT									
MPPT Battery Current Limiting (Default)		25A			40A						
Efficiency		>95%									
		Battery Default Value									
PCU Working Mode Selection by Dip Switch / Selection Switch		Mode	Smart Hybrid PCU	Smart	Mode Selection : Hybrid / PCU / Smart, INV / UPS Selection						
Grid Disconnect Solar Present (PCU / Smart)		Volts	Acc. Battery Type Achieve Boost (Mains Disconnect After 2min)	Tubular	According Battery type Achieve Boost (Mains Disconnect After 2 min)						Tubular
Grid Reconnect (Smart / PCU)		Volts	11.8 / Batt. $\pm 2\%$								12 V
Low Cutt Off		Volts	10.5 / Batt $\pm 2\%$								
Low Cut Off Recovery by SPV		Volts	11.5 / batt $\pm 2\%$								
zzer		Volts	10.7 / Batt $\pm 2\%$								
High Cutt Off		Volts	16.5 / Batt $\pm 2\%$								
High Cut Off Recovery		Volts	15.0 / Batt $\pm 2\%$								
Boost Charging Volt by SPV TUB/SMF		Volts	SMF	14.2V $\pm 2\%$	TUBULAR	14.8V $\pm 2\%$	Setable Through LCD				
Grid Boost Charging Volt TUB/SMF		Volts		14.0V $\pm 2\%$		14.4V $\pm 2\%$					
Float Charging Voltage		Volts		13.5V $\pm 2\%$		13.7V $\pm 2\%$					
Grid Charging Current Enable by DIP Switch (Normal)		Amps	12A $\pm 2\%$			NA					
Grid Charging Current Enable by DIP Switch (High)		Amps	15A $\pm 2\%$			15 A $\pm 2\%$					
Grid Charging Current Disable by DIP Switch		Amps	0 Amp			Enable					
		Output									
Output Voltage No Load		Volts	230 $\pm 2\%$								
Output Frequency		Hz	50 $\pm 2\%$								
Overload		Amps	3.4	8.6	10.4	17.3	17.3	26	34.7	34.7	52.2
Over Load Retry UPS Mode		NA									
Overload retry inverter Mode		3 Times									
		Grid									
Battery Charging Stages		5 (Softstart, Boost, Absorption, Float, Equalize)									
No of Phase		1 Phase- 3 Wire P,N,E									
Voltage Range (Inverter Mode)		Volts	100 - 200 $\pm 2\%$								
Voltage Range (UPS Mode)		Volts	175 - 255 $\pm 2\%$								
Frequency Range		Hz	45 - 55 $\pm 2\%$								
		Display									
Display		Alphanumeric	16 x 2 LCD		20 x 4 LCD with switch Configuration						
Parameters		Output(Inverter)	Voltage, Current, Power and Frequency								
		Input(Grid)	Voltage and Frequency								
		Solar	Voltage, Current, Power and Frequency (optional)								
		Battery	Voltage, Current								
		Status / Faults	Inverter Status, Mains Status, Charger Status, Solar Status and Battery Status/ Charging Stages/ Over Temp., System Uptime								
		Inverter									
Switching Element		MOSFET				IGBT					
INV / UPS (IT Mode)		By Dip Switch				By front Switch					
Output Voltage		Volts	230 $\pm 2\%$								
Efficiency			$\geq 80\%$	$\geq 85\%$							
Phase		1 Phase- 3 Wire P,N,E									
Output Waveform		Pure Sine Wave									
Frequency		Hz	50 $\pm 2\%$								
Changeover (Mains to Inverter)		ms	< 10ms								
Output Power Factor		0.8									
Switches		System On/OFF, Mode Selection : Hybrid / PCU / Smart, INV / UPS Selection									
Indication (LED)		Inverter On Mains in range, Battery Low / High, Charger On, Over Load, Faults									
Alarm (Audible)		Battery low, Over Load, Charger On, Inverter On, Solar Charger On									
Protection		Over Load, Short circuit Protection, Over Voltage, SPV Surge and Transient Protection (MOV Varistors), Reverse Polarity of Battery, Over temp. Protection, Under Voltage and Over Voltage protection									
Cooling		Forced Airt Cooling (Temperature Controlled)									
Operating Temp		C	0 - 50								
Noise @ 1 meter Distance		50 dB									
Operating Humidity		%	95								
Protection Class		IP 20									
Dimension (L x W x H)		mm	432 x 382 x 216	470 x 400 x 500	600 x 400 x 610			680 x 400 x 810		730 x 730 x 830	
Net Weight		kg	18	28	39.5	50	530	83.73	84.6	86.7	100

*Specification are subject to change without prior notice due to constant improvement in design & technology.



LithiVolt Pro

Wall Mount Inverter

AVAILABLE RANGE 1 - 25 kVA

- Wall Mounted System
- In-Built Li-Po4 Battery
- Maintenance Free
- Stylish and Compact Design
- 50% Lesser Size than Conventional
- Inverter Longer Life Easy to Install
- No Fumes
- Fast Charging



TECHNICAL SPECIFICATIONS

GKM LithiVolt Pro (Lithium Powered Inverters) with inbulit Battery

Parameters		Rating			
Name of Model	LithiVolt Pro	1 KVA	2 KVA	3 KVA	5 KVA
Input Volt Range	Volts	100V-300V Settable			
Nominal Input Battery Volt	Volts	12	24	48	48
Battery Capacity	Ah	100-400			
	Output Parameters				
Waveform Type	Pure Sinewave				
Inverter Output Voltage at Nominal DC	230V+_3%				
Output Frequency	50Hz+-0.5Hz				
	MPPT Solar Charger				
Solar Panel Voc (Min-Max)		38 to 80	38 to 95	60 to 175	190
Panel Current Max		20A	35A	35A	35A
Peak Charge Efficiency	98%				
Max Charging Current Volt	40 Amp				
	Environment				
Operating Temperature	0-40 Degree°C				
Relative Humadity	0-95% Non Condensing				
Audible Noise	<55dBA				
	Protections				
Low Battery Indications		10.6 ± 0.6Vdc	21.2 ± 0.6Vdc	42.4 ± 0.8Vdc	
Low Battery Shut Down		10.5 ± 0.6Vdc	21.0 ± 0.6Vdc	41.0 ± 0.8Vdc	
Output Overload		Electronic@>100%Load			
Output Solar Short Circuit	Electronic Current Limiting with Shut Down +MCB				
Other	Battery Over Voltage, Over Recharge, PV Reverse Polarity, PV Reverse Current Flow, PV Surge, Overload, Load Short Circuit Protection				
	Battery Volt				
Boost Voltage		14.2 Volt	28.0 Volt	56.0Volt	56.0Volt
Max Battery Charging Current	16-20 Amp				
THD	<3% at Linear Load				
Battery Capacity	LFP	90 Ah	110 Ah	110 Ah	220 Ah

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Heavy Duty Tall Tubular Technology

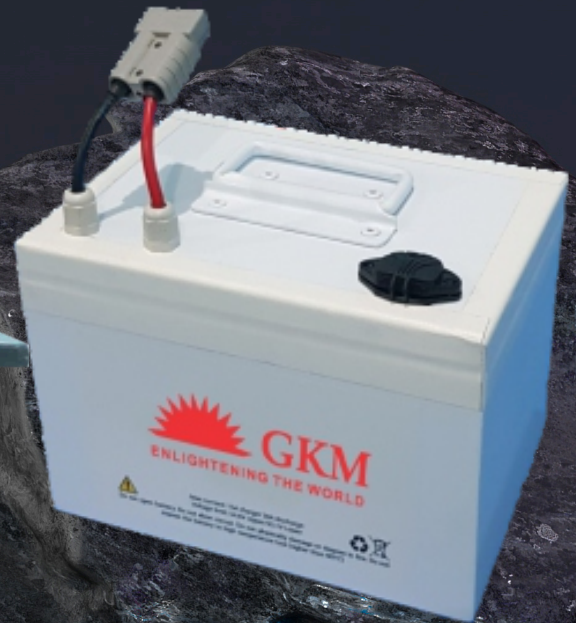




TECHNICAL SPECIFICATION

S.No.	Battery Name	Model Number	Type of Battery	Battery Capacity	Warranty
1	ThunderCell	GKMTC - 17060	C 20	170 Ah	36+24* M
2		GKMTC - 20060		200 Ah	
3		GKMTC - 23060		230 Ah	
4		GKMTC - 17084	C 10	170 Ah	60+24* M
5		GKMTC - 20084		200 Ah	
6		GKMTC - 23084		230 Ah	

*Condition Apply



GKM GREENFLOW

Lithium Batteries

AVAILABLE 0.5 kW - 100 kW
3.2V - 688V

FEATURES

- 3500-4500 Life Cycles
- Maintenance Free
- Fast Charging (Almost $\frac{1}{3}$ time of Lead Acid Battery)
- 100% Depth of Discharge
- No Fumes (No Acid Inside)
- No Changes in Performance in High & Low Temperature
- Intelligent Battery Management System

 **1800 313 2001**

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Lithium
6.941

Application of **LITHIUM BATTERY**



**Electric Vehicle Two
Wheeler**



**Electric Vehicle Three
Wheeler**



**Solar & Inverter
Application**



Drones

**Electric Vehicles
Four Wheeler**



Robotics



Medical Equipments



**Emergency &
Agriculture
Requirements**



Telecom



Golf Cart





Solar Management Unit

Be Smart & Convert your existing inverter into Solar

AVAILABLE RANGE 12V/24V - 60Amp

Solar Charger Controller (PWM/MPPT)



- Controller Based PWM Technology.
- Works Efficiently.
- LED/LED Indication.
- Over Charging Current Protection.
- Over Charging Voltage Protection.
- Battery Reverse Protection.
- Overload Protection.
- Reverse Current Flow from Battery Solar Array Protection.

AVAILABLE RANGE

**12V/5A -
120V/40A**



VFD (Available in 1Hp - 30Hp)

FEATURES

- Support for driving single-phase 220V and three-phase 220V/380V/415V pumps, 0.4 - 2.2kW & 0.75 - 5kW.
- Support for drive three phase 220V/380V/415V pumps for 7.5 - 15kW rating.
- The inverters automatically start or sleep only after being connected to solar panel without any parameter setting.
- Including PV over voltage protection, PV polarity reverse warning, auto derating against over-temperature etc. which can extend product's life.
- Ensure the solar power tracking efficiency reaches 99%.
- Implement auto switch between solar input and grid input, achieved 24-hour unattended work.
- Support the GPRS module, which can remote monitor the inverter by using the APP.
- Support cabinet product for IP54 protection level.



WIRES & CABLES

YOUR SAFETYOUR CONCERN

Single core, unsheathed cables in voltage grade 1100 V

- 01 PREMIUM QUALITY PVC INSULATION
- 02 PURE ELECTROLYTIC COPPER CONDUCTOR
- 03 COMPLETE SAFETY & RELIABILITY
- 04 ENERGY SAVING



- 05 ANTI CORROSION & MOISTURE RESISTANT (APD)
- 06 UV PROTECTED PVC JACKET FOR LONG LIFE
- 07 SUITABLE FOR POWER PASS
- 08 FLAME RETARDANT (FR) PVC INSULATED

Technical Data

Normal area of Conductor Sq. mm.	Number/ Nom: Dia. of Wire mm.	Thickness of Insula on (Nom.) mm.	Approx. Overall Diameter mm.	Current carrying capacity # 2 cables, single phase		Resistance (max.) per km @20° C Ohms
				In conduit/ Trunking Amps.	unenclosed-clipped directly to a surface or on cable tray Amps.	
0.75	24/.2*	0.6	2.5	10	11	26.00
1.0	14/.3*	0.7	2.8	14	12	18.10
1.5	22/.3*	0.7	3.1	19	16	12.10
2.5	36/.3*	0.8	3.8	26	22	7.41
4.0	56/.3*	0.8	4.4	32	29	4.95
6.0	84/.3*	0.8	5.0	40	37	3.30

*As per conductor Class 2 of IS : 8130/1984

**As per conductor Class 5 of IS : 8130/1984



Solar Home Lighting System



SOLAR STREET LIGHT



SOLAR HOME APPLIANCES



SOLAR HIGH MAST

GKM Retro Fitting Kits



GKM has embarked on advanced R&D to convert existing petrol and diesel vehicles into electric vehicles. Our in-house team has developed a fully indigenous conversion kit, which has been approved by a Government of India testing centre. These kits, ranging from 1 kW to 300 kW, underscore our commitment to innovation and sustainability.



Tractor



Truck



15 Ton Crane



Skid Loader



Golf Cart



Jeep

Complete EV Solutions

✓ No Pollution

✓ No Petrol

✓ 10 Paisa / km



Racity



Azzure



Zoom



V-Glide



Glizer

Our Range of Electric Autos: L3 & L5 Category



Range- up
to
100 - 200 km

✓ 3 Years Battery Warranty ✓ Fast Charging ✓ Running Cost 1 Rs.

GKM manufactures a wide range of LED lights, including residential, commercial, decorative, ornamental, bollard, and industrial lighting. The company is backed by the credibility of being registered with Navratna companies under the Government of India and BIS certifications, and boasts experience in supplying over 10 million LED lights.



**LED PANEL 6 TO 32
WATT LED PANEL 34
TO 42 WATT**



**LEO TUBES/ BATTEN/ COB/
WEATHER PROOF/ BULK HEAD
LED HIGHBAY/ WELL GLASS/
PROJECTOR/ EARTH EMBEDDED**



**LED STREET LIGHT
LUMINARIES LED FLOOD
LIGHT LUMINARIES**



**LED POST TOP FIXTURES LED POST
TOP/ SUSPENSION FIXTURES**



**CFL POST TOP/ SUSPENSION FIXTURES
DECORATIVE URBAN LIGHTING**



**STEEL POLES ORNAMENTAL
BRACKETS**

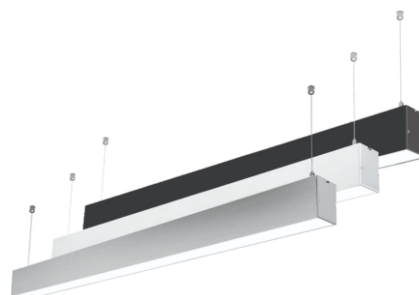


**DECORATIVE CAST ALUMINUM /
CAST IRON POLES**

**BOLLARD LIGHTINGS
INDUSTRIAL LUMINARIES HID**



MAGNETIC TRACK LIGHT



LINEAR HANGING LIGHT

**Cove / Neon Strip Light
/ Rope Light**



GKM SMART LED Lights are Equipped with Highly Efficient, Intelligent, and Dynamic Sensors

GKM Occupancy Sensors are available in three distinct technology, so that you can be sure to find the appropriate solution for your space.

Passive Infrared (PIR)



Ultrasonic



Dual Tech



Applications of Smart Lights



Reception



Conference Rooms



Waiting Areas



Hotels



Hospitals



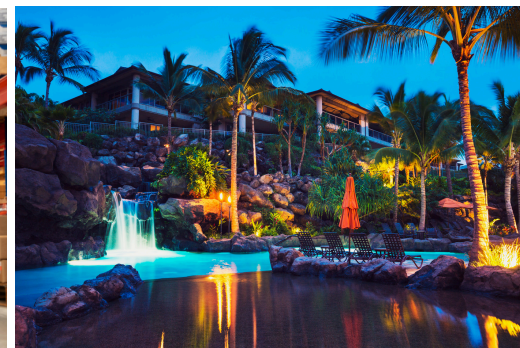
Cafeteria



Parking

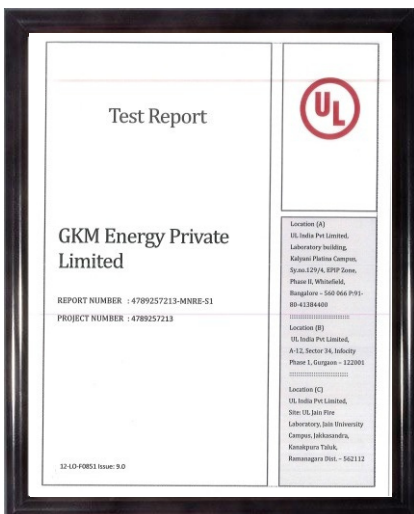


WareHouses



Resorts

Our Certifications



Our Esteemed Clientele



Our Credentials





 **GKM**
ENLIGHTENING THE WORLD



Contact US



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www.gkmenergy.com

Solar | PCU | Battery | Lithium | LEDs | Street Light | Electrical Vehicles