



INTELLIGENT CELLS EST.
For Engineering Energy Services



مؤسسة الخلايا الذكية التجارية
لخدمات الطاقة الهندسية



ICE

Intelligent Cells Establishment is one of GCC leading companies in providing latest energy solutions and services that promote for clean energy source and optimum energy consumption. Driven by values of sustainability, reliability, flexibility, honesty and commitment bringing to our valued customers top products with high economic value resulting in an everlasting customer satisfaction.



VISION



To become the leading GCC sustainable green solutions provider.

MISSION



To discover, develop and deliver innovative green technology products and services, through our global partners, to our local GCC customers and stakeholders.

OUR STORY



ICE was born amid the reign's high demand of new innovative, green, reliable, natural and cost effective energy solutions driven by economy reforms and clients' needs. ICE has established long term partnership relations with different leading companies located in China, Taiwan and Germany. ICE is proud to say that it is also contributing to Saudi Arabia's Vision of 2030 by providing abundant clean energy to the kingdom





ICE Strengths & specialties

■ CREATING POSSIBILITIES

We build the next generation with climate-safe energy solutions

■ COMMITED

We are committed in delivering excellence to our clients

■ ACCESSIBLE

Our team is easily accessible in completing your needs

■ PROFITABLE

We deliver solutions that boost your business and success rate

■ ENERGY EFFICIENCY SOLUTION

- Longer life span
- Path towards solar energy
- Reliable energy source
- Saving electricity bills
- Reduce energy requirements
- Reduce energy costs

■ BUSINESS WINNING FACTORS

- Broad product offering
- Deep understanding of customer economics
- Create value by meeting customer needs
- Maintain quality & reliability

■ RESEARCH & DEVELOPMENT

- ICE believes in bringing the latest technologies for its clients through our giant partners
- ICE works with partners to develop new solutions that are more durable and adjustable to GCC environment



ICE Services

- Energy Efficiency Consultation
- System Designing & Installation
- Testing & Commissioning
- Operation & Maintenance
- Auditing Services
- Sustainability

ICE Capabilities

- Extensive Upstream Prescription in design phase
- Expert Sales and Design Team
- Reputable Suppliers with Competitive prices
- Free of Charge Product Training



LED Lighting Background

High efficient light

LED flowing light direction can be easily used directly to the spot and that can save energy consumption and light pollution.



Energy conservation

Comparing to the traditional lighting, light produced by LED has a high efficiency and save about 60% to 90%

Maintenance cost minimization

Led has a long lifetime and this feature can save the cost of frequent maintenance.



Long lifetime

The operation hours is 25000 to 50000 hour

Safety in installation

LED produce less heat and that would be safe for the users during the installation





LED Lighting Background

High quality in colors

LED consists of variations of colors. Moreover, This technology giving a live colors due to produce more pure and deep colors without any energy damage.



Immediate lighting

In contrast with traditional lighting, LED can start as quick to light up the place and does not require much more time to reach the maximum level of lighting and heat

Energy efficiency

This technology is effective and its efficiency about 80% to 90% if compared to the traditional. In this case about 80% of the electrical energy can be transformed to light.



Friendly environment

In contrast with traditional lighting, LED can start as quick to light up the place and does not require much more time to reach the maximum level of lighting and heat



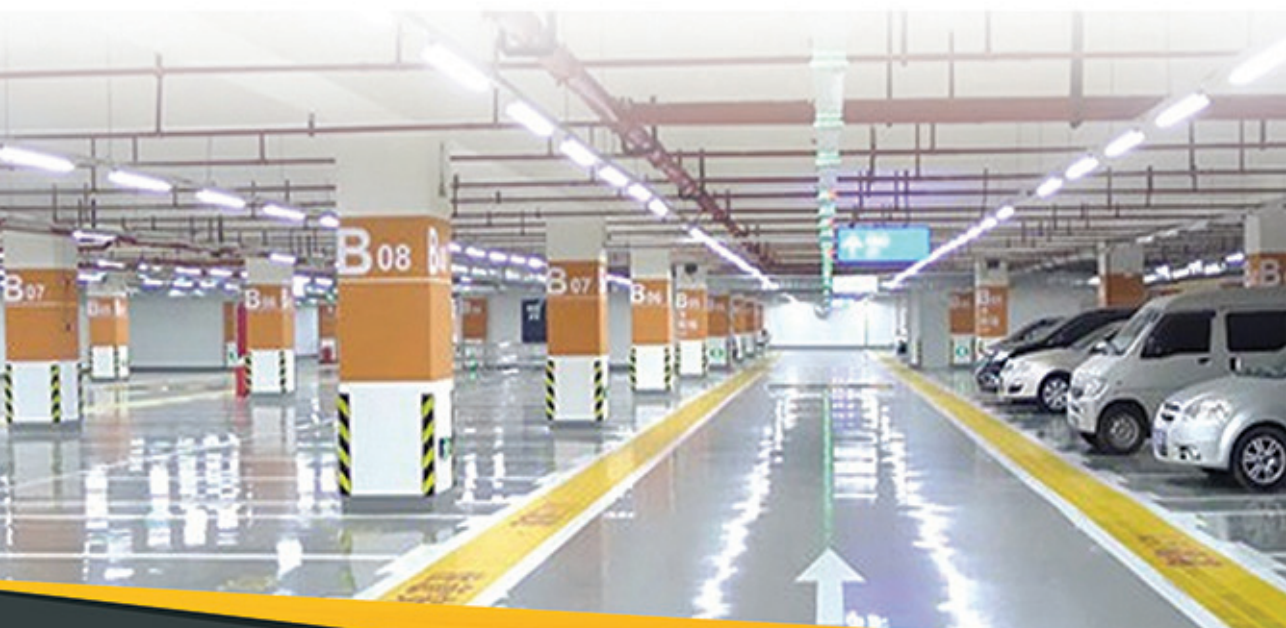
Tube LEDS



APPLICATIONS

Office building lighting
Shopping, Retail, Business office
and Hotel lighting, Factorys
Library and Museum lighting
Residential lighting and Under-
ground parking lighting

High Luminous efficiency of white
LED, No IR/UV radiation
T8 tubes with length option-
al, which can replace fluorescent
lamps
Available in warm white/neutral
white/cold white light color
Optional external or internal driv-
er, available in rotating socket
Install to grill lamp according to the
demand (Optional accessories)





LED VS NORMAL



Incandescent light bulb
Uses 40W

Incandescent bulbs use about five times as much power to produce the same amount of light as LED bulbs. At low power levels the difference is larger. At higher power the difference is somewhat smaller. Electrical power is measured in watts. For example, a LED bulb consuming 3 watts might output light comparable to a 20-watt incandescent bulb, and a 6-watt LED bulb might be comparable to 30-watt incandescent bulb.

LED light bulb
Uses 4W

LED light bulbs are much brighter than incandescent or halogen bulbs of the same wattage, but LED bulbs are not available in high wattages. Thus, when replacing incandescent or halogen lamps with LED lamps, more LED lamps are often needed. For example, to replace one 65-watt incandescent floodlight you may need two 6-watt or 7-watt LED floodlights. Although you have more bulbs you are still using 80% less electricity.



Street Light LEDS



APPLICATIONS

City Road, Factory
Road, Village Road

Applying the latest out-door white LED technology, energy-efficient Lumen efficiency (80-90lm/w 90-95lm/w 95-100lm/w)
Easy standard module design
A service life of over 30000h
Unique optical design, symmetric and asymmetric light distribution technology meets the city road lighting design standards.



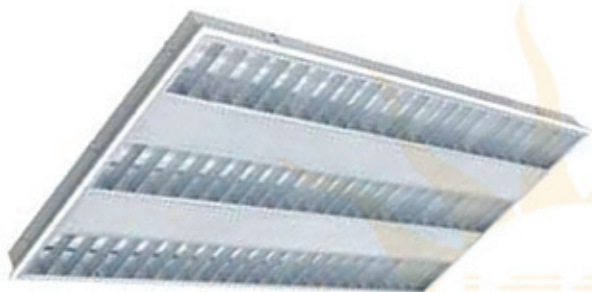


Grille lamp LEDS

APPLICATIONS

Office building lighting
Shopping, Retail, Business
office and Hotel lighting
Library and Museum lighting
Residential lighting and Un-
derground parking lighting

High Luminous efficiency of white
LED, No IR/UV radiation
Tubes with length optional, which
can replace fluorescent lamps
Available in warm white/neutral
white/cold white light color
Optional external or internal
driver, available in rotating socket
Install to grill lamp according to the
demand (Optional accessories)





Par LEDS



APPLICATIONS

Shopping mall, Retail and Hotel lighting, hall, exhibition and Shop window lighting
Library and Museum lighting
Residential lighting

100-240V AC power supply
High Luminous efficiency of white LED, No IR/UV radiation
E27 socket and replace traditional PAR20/PAR30/PAR38
Available in narrow/middle/wide beam angle





Down Light LEDS



APPLICATIONS

Shopping mall, Retail and Hotel lighting
Exhibition and Shop window lighting
Library and Museum lighting
Residential lighting

Compared with the fluorescent lamp, more than 50% energy saving

No IR/UV radiation

Life up to 30000 hours

Constant current, stable performance, quick start, no flicker





Solar System Background



OFF-GRID SYSTEM

Off-grid solar power systems are most often used to power DC appliances in camps, remote areas, and cabins, as well as farm/ranch appliances like gates and rural telecommunications systems when utility power is not accessible.



ON-GRID SYSTEM

On-Grid Systems are solar pv systems that only generate power when the utility power grid is available. They must connect to the grid to function. They can send excess power generated back to the grid when you are overproducing so you credit it for later use



HYBRID SYSTEM

Hybrid solar systems combines the best from grid-tied and off-grid solar systems. These systems can either be described as off-grid solar with utility backup power, or grid-tied solar with extra battery storage



Our Partners' PVS

Modules ●●●

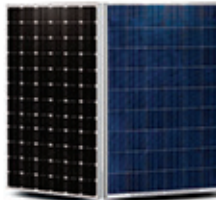
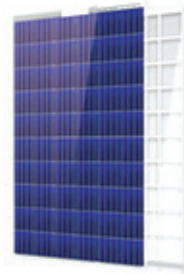
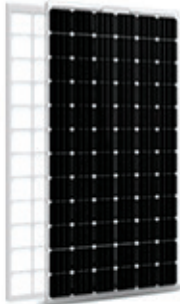
Solar is unique among other manufacturers due to a wide range of photovoltaic modules in different performance and technology.

All our photovoltaic modules can be performed with Smart Hot Spot Free Technology implementation.

Monocrystalline
Double Glass
photovoltaic modules
270Wp - 360Wp

Monocrystalline
Bi-Facial
photovoltaic modules
290Wp - 300Wp

Polycrystalline
Double Glass
photovoltaic modules
260Wp - 275Wp



Monocrystalline photovoltaic modules 90Wp - 350Wp

We are gaining higher module efficiency from

PERC Technology

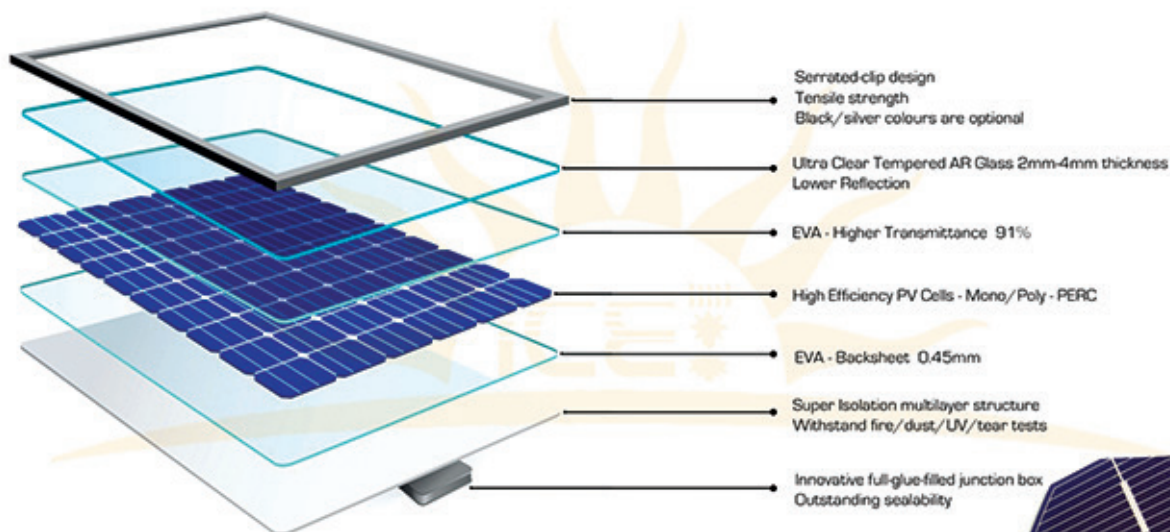
Polycrystalline photovoltaic modules 80Wp - 330Wp



Our Partners' PVS

Superior Materials ●●●

Solar guarantees high-quality and best performance of photovoltaic modules using only superior raw materials and components from Tier 1 Grade A suppliers



Durability●●●

Reliability●●●

Solar commits to providing only the best quality for customers. Therefore, 100% testing ratio for visual inspection, EL testing, pressure testing, mechanical load testing and age testing ensure that Solar photovoltaic modules operate safely and smoothly for at least 30 years with the product warranty of 12 years. Hence, guaranteeing a strong and stable return on investment for investors.

The best way to verify photovoltaic modules reliability is to observe its performance in a power plant. Modules must be able to withstand any external environmental factors and resist all types of natural stresses as they ultimately affect the power plant's performance and investment IRR.

We put a selection of PV modules through extreme environmental testing to ensure reliability and superior performance in even the world's most unforgiving conditions.

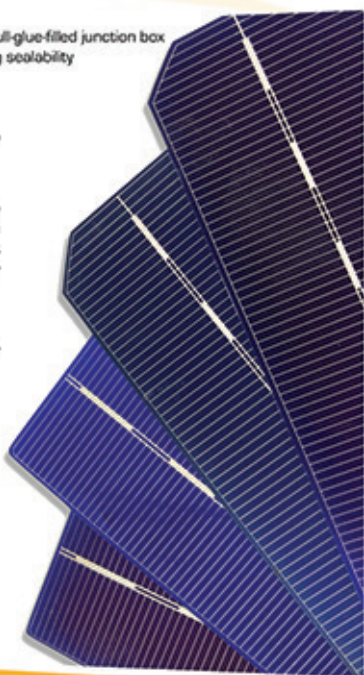


Insured Warranty

We provide customers with a liability insurance from a world-renowned insurance company to ensure your PV investment is secured.



Solar is qualified by several international certification authorities





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