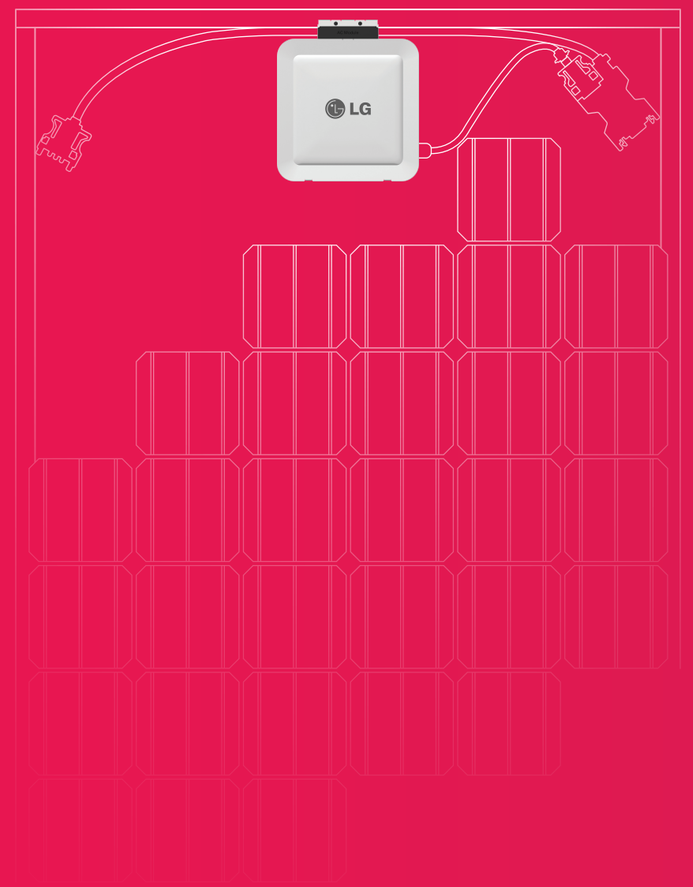
MonoX® ACe

PerfectAC™ Module



Cutting area

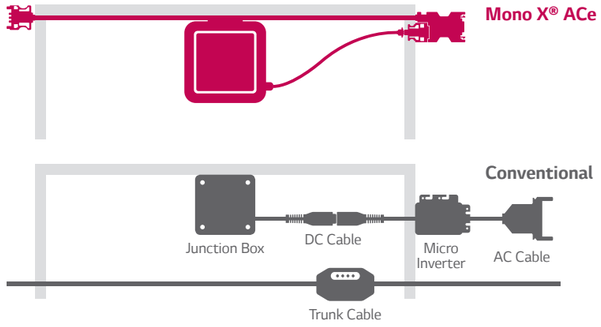
LG
Life's Good

LG
Life's Good

Simple Feature

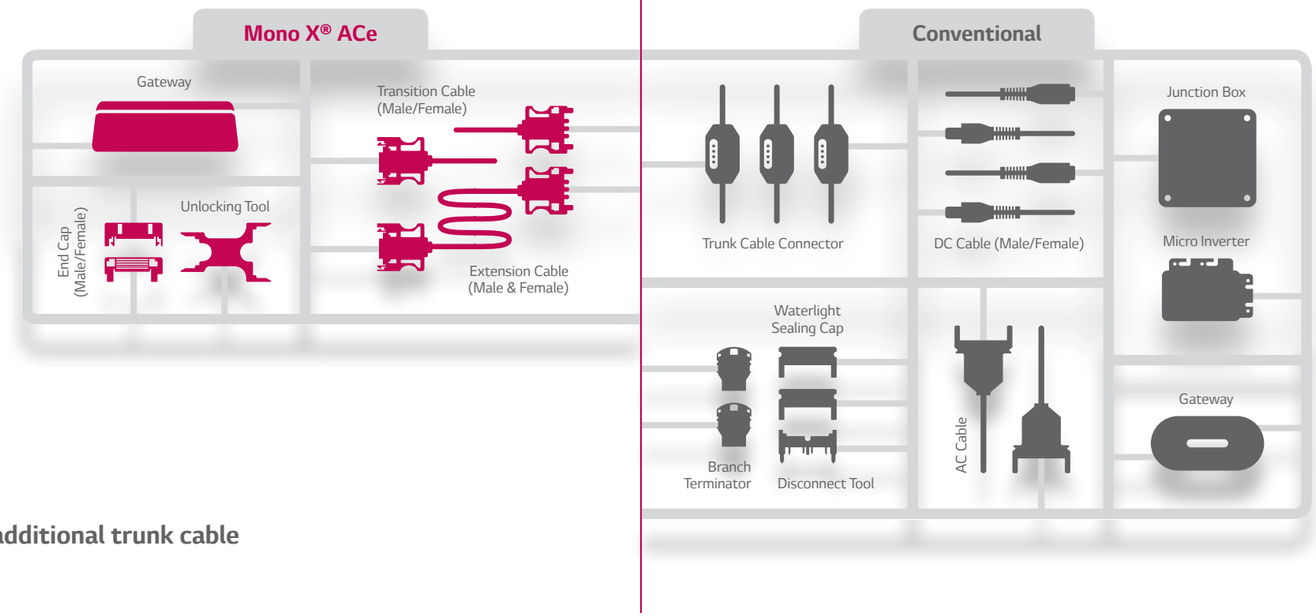
Combines the module and inverter in a single unit

Clean appearance by combining the junction box and micro inverter.
Minimize installation time by reducing connecting work.
Easier installation as the DC connection and operation are tested during manufacturing.



Dramatic Reduction of

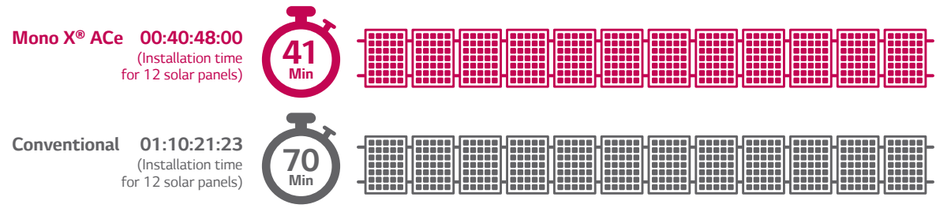
Labor, Components, and Installation Process



Fast Installation

Simple installation process saves time for installation

No micro inverter mounting, No DC wiring, No AC trunk cable installation.

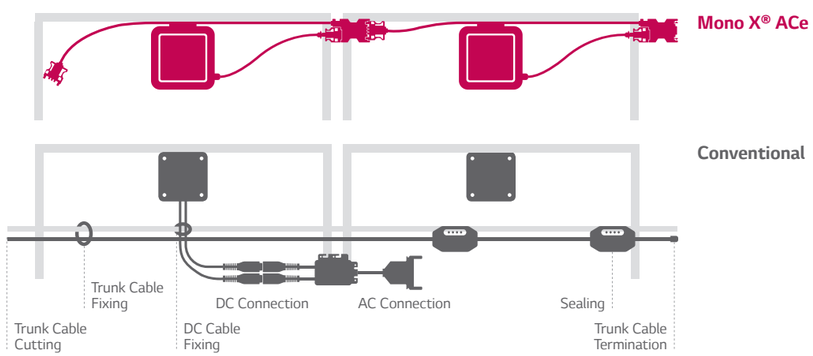


Base on LG internal comparison test result
(The installers featured in this video had no prior experience with the LG ACe module, nor are they employees of, or compensated by LG in any way.)

Reduced Cable Work

Able to connect the AC modules without an additional trunk cable

Drastically reduced trunk cable related parts.
No need for trunk and DC cable work. (save 9 steps)
Minimizes complex cables on a roof.



Simple Installation Work

Only end cap and transition cable required

No need for micro Inverter installation, trunk cable(cutting, ruling), branch terminator(cutting, assembling), water sealing cap, tie wrap for DC cable.
*Depending on the installation situation, LG extension cable might be required.

Base on LG internal comparison test result
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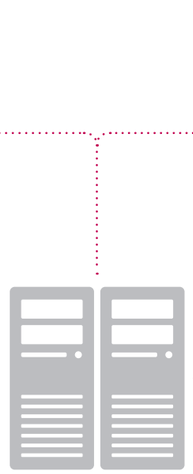
Web Monitoring

Provides advanced Web-based solution

Monitor power generation through the internet, anywhere and anytime.
Automatic problem diagnosis function.
Stable environment with LG's in-house server operation.

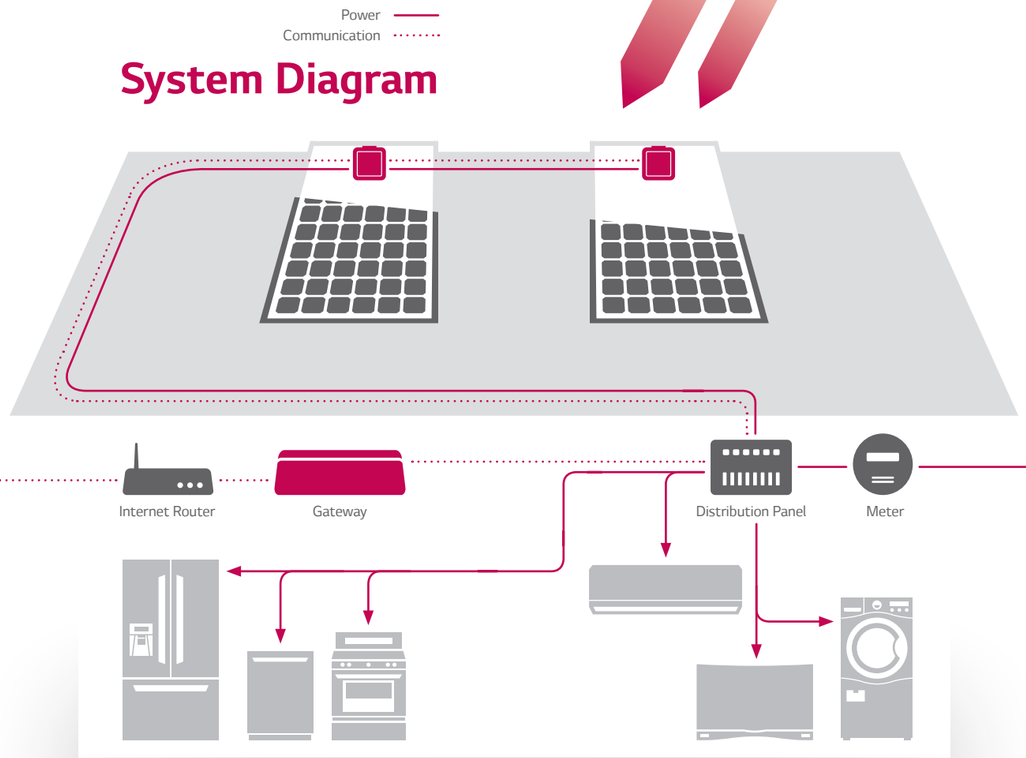
PC

Tablet PC / Smart phone



Server

System Diagram



Accurate Network

Adopts the only broadband PLC* Type in the solar industry to increase the communication accuracy

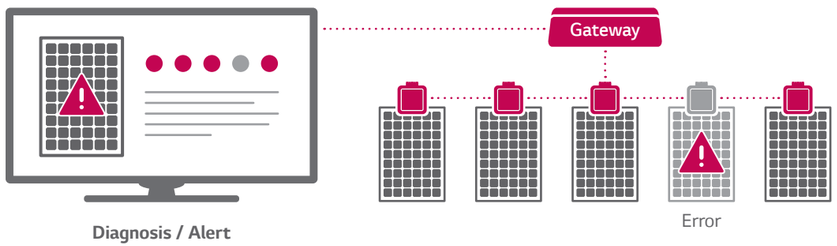
No noise interference from home appliances, increasing accuracy of the power generation data.
Very little communication errors between the gateway and Micro inverter.
Follows international communication standard IEEE 1901.
*PLC: Power Line Communication

Broadband PLC
(Mono X® ACe)

Narrowband PLC

Easy Troubleshooting

Problematic AC module is easily detected



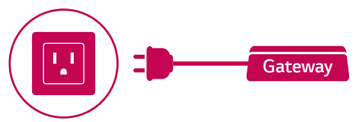
Diagnosis / Alert

Error

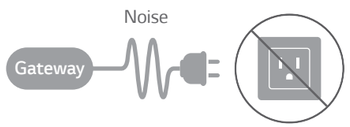
Easy Installation of the Gateway

Can be placed in the house

Gateway can be installed in more places within the house than narrowband PLC gateway.
Combiner box not necessary for gateway installation.
*Wired connection (LAN cable) is required between gateway and internet router.
*Commercial PLC (Power Line Communication) bridge is required if there is not a proper outlet to install gateway near internet router.



Mono X® ACe



Conventional

Quality Assurance

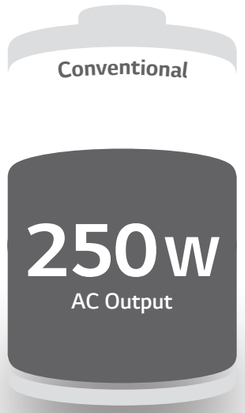
Our modules meet the most stringent requirements in the QA process

Any defective modules are carefully selected through rigorous inspection.

- Salt Mist Test
- Hail Impact Test
- Thermal Cycle / Damp Heat Test
- 100% EL Test (2 Times)
- Weather-ometer Test
- Robustness Test
- Static and Dynamic Mechanical Load Test
- Outdoors Field Test

Max Performing AC Output

Max performing AC output among the products* in the market**



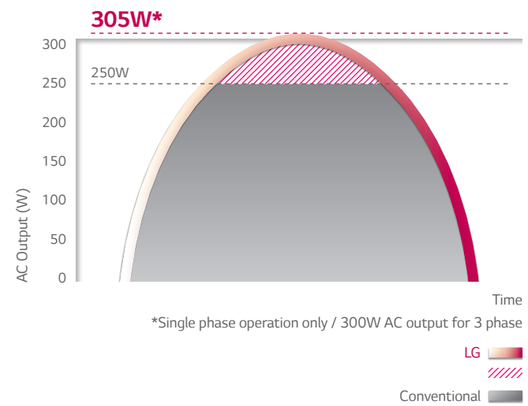
Max performing AC output micro inverter* efficiency level. Combined with LG's high output module to feature max performing AC output. More power generation per square foot.

*Single module connection micro inverter
**Refer to California Energy Commission list, October 2014
***Continuous output power of 285W

Optimized Design

Module design optimized for high output

305W inverter optimized for 300W and 305W module.
Virtually no clipping loss from mismatch of the module and inverter capacities.
Inverter design with consideration of suitable load.



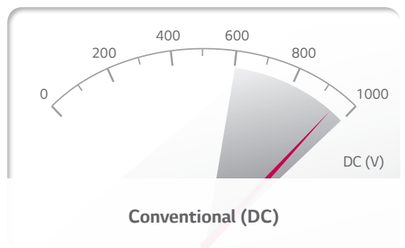
*Single phase operation only / 300W AC output for 3 phase

Lower Voltage

Reduced risk of fire since the system uses low voltage and AC

No high voltage DC wiring with 600 or 1000 volts.
All AC wiring with 208 or 240 volts.

Mono X® ACe (AC)



Conventional (DC)

Eliminated DC Component

Removed DC Junction box, DC Cable and DC Connector

Less power generation loss compared to conventional box through DC resistance.
No need for DC component installation.
Less potential complications as there is no connection to the junction box.