
BluE Series Product Introduction



PART 01

KSTAR Company Profile

Powering Green Future

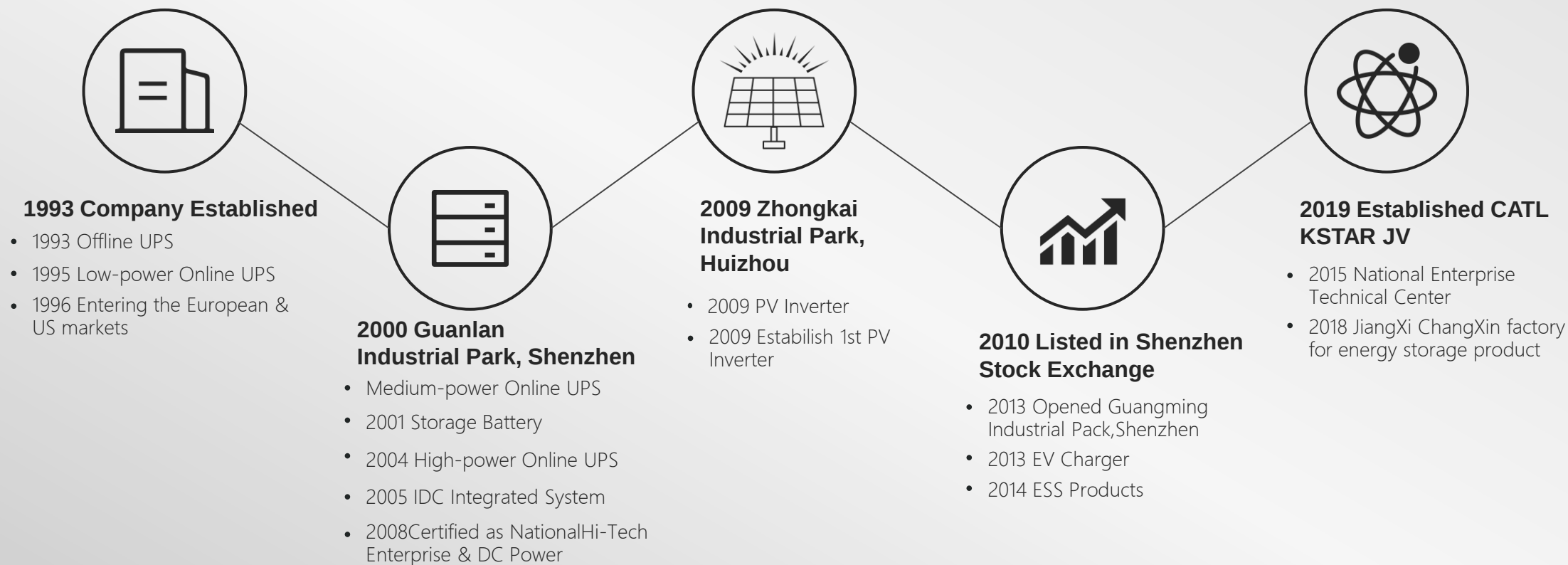
Company Profile

Founded in 1993, Shenzhen KSTAR Science & Technology Co., Ltd is a pioneer of UPS industry and a total solution provider for Data Center Critical Infrastructure & PV Inverter Systems worldwide.

KSTAR has been providing high-quality products to over 90 countries and regions worldwide, leading the industrial development with innovation.

With a floor area of 150,000 square meters and a building area of 167,000 square meters, KSTAR R&D and manufacturing base is a world-leading base in terms of scale and manufacturing capabilities.

KSTAR Development history of the company



Development Milestone Global Office and Service center

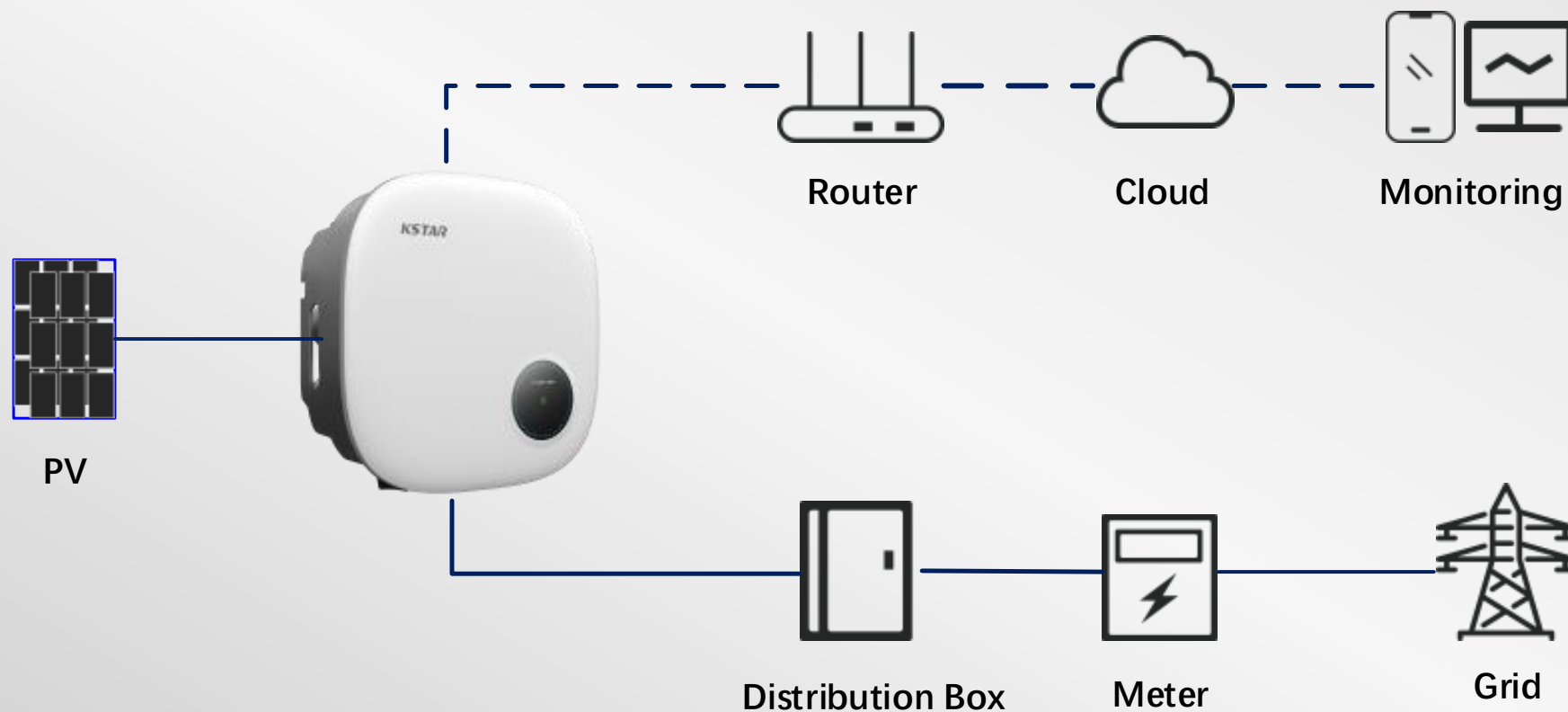


- 18 Overseas Branch
- 40 Overseas Service Engineers
- Global Service Network
- 24/7 Response and Support

PART 02
BluE Series Product
Powering Green Future

Residential PV Solution

BluE-G single-phase inverter is the best choice residential PV systems



Block Diagram of Utility System

BluE-G Single-Phase Inverter

BluE-G 3000S-G2-M1

Efficient

Max. input current 13A
Max. DC voltage 600V
Wide Vmpp range 80-560V
Start voltage 80V
Max. DC/AC ratio up to 1.5
Max. efficiency up to 97.6%

Convenient



Remote Control
Easy Installation



Reliable



Type II DC SPD /Type III AC SPD
DC reverse polarity protection
IP66 Protection Degree



BluE-G 5000D-M1

Efficient

Max. input current 15A
Max. DC voltage 600V
Wide Vmpp range 80-560V
Start voltage 100V
Max. DC/AC ratio up to 1.5
Max. efficiency up to 98.3%

Compatible



Zero Export
Weak grid adaptability

BluE-G 3-Phase Inverter

BluE 10/20KT-M1

Efficient

Max. input current 15A
Max. DC voltage 600V
Wide Vmpp range 140-1000V
Start voltage 250V
Max. DC/AC ratio up to 1.5
Max. efficiency up to 98.6%



Convenient

Remote Control
Easy Installation



Reliable

Type II DC SPD /Type III AC SPD
DC reverse polarity protection
IP66 Protection Degree



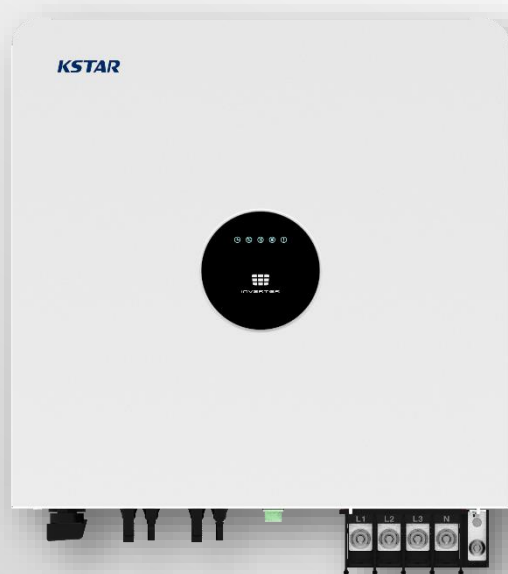
Compatible

Zero Export
Weak grid adaptability



PART 03
C&I PV String inverter Product
Powering Green Future

C&I PV Inverter Family



G60K

- 4 MPPT
- Max string MPP current 16A
- Max DC Input: 1100Vdc



G125KT

- 8 MPPT
- Max string MPP current 20A
- Max DC Input: 1100Vdc



G350KTH

- 12 MPPT
- Max string MPP current 20A
- Max DC Input: 1500Vdc

C&I PV String Inverter

G60kT

Efficient

Max. input current 32A
Max. PV voltage up to 1100V
Wide Vmpp range 200-1000V
Start voltage 250V
Max. DC/AC ratio up to 1.5
Max. efficiency up to 98.6%



Convenient

Remote Control
Easy Installation



Reliable

Type II DC SPD & Type II AC SPD
DC reverse polarity protection
IP66 Protection Degree
AFCI function
Night SVG function
String fault detection



Compatible

Compatible for big capacity PV panel
WiFi / 4G Plug optional



C&I PV String Inverter

G125KT

Efficient

Max. input current 40A
Wide Vmpp range 200-1000V
Start voltage 250V
Max. DC/AC ratio up to 1.5
Max. efficiency up to 98.7%
PLC communication



Convenient

Remote Control
Easy Installation



Reliable

Type II DC SPD & Type II AC SPD
DC reverse polarity protection
IP66 Protection Degree
AFCI function
Night SVG function
String fault detection



Compatible

Compatible for big capacity PV panel
WiFi / 4G Plug optional

KSG Three-Phase PV Inverter

G350KTH

Efficient

Max. input current 40A
Max. PV voltage up to 1500V
Wide Vmpp range 500-1500V
Start voltage 650V
Max. DC/AC ratio up to 1.5
Max. efficiency up to 99%



Convenient

Remote Control
Easy Installation



Reliable

Type II DC SPD & Type II AC SPD
DC/AC Short Circuit Protection
IP66 Protection Degree



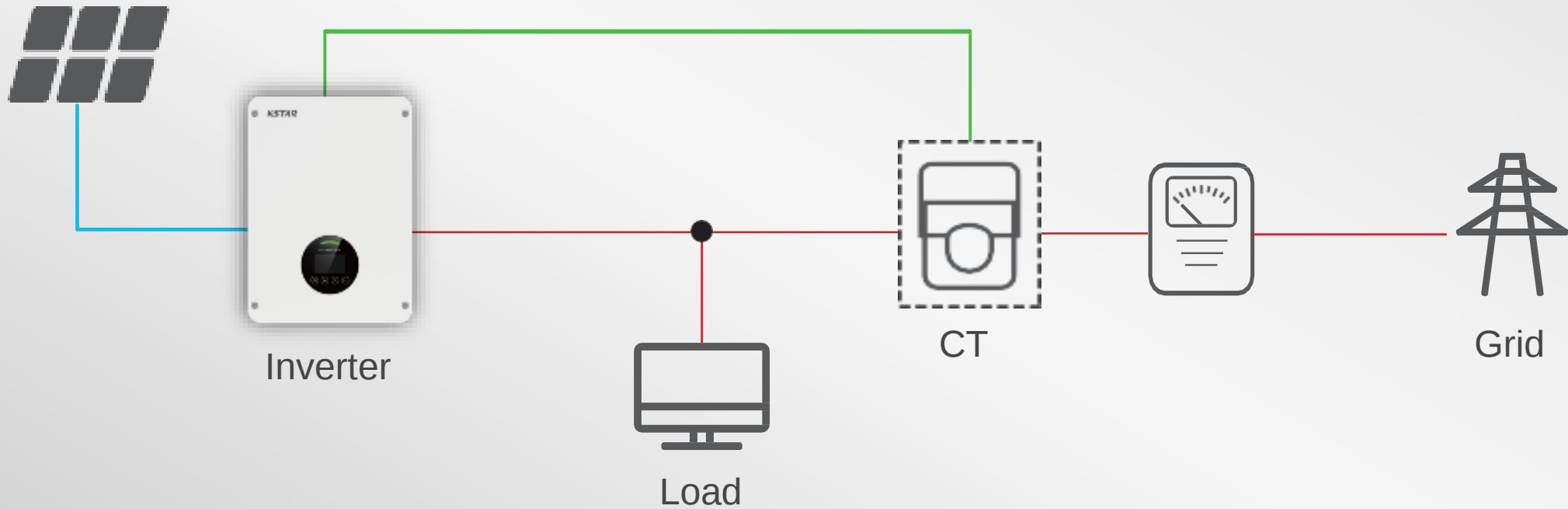
Compatible

Compatible for big capacity PV panel
SCS communication box



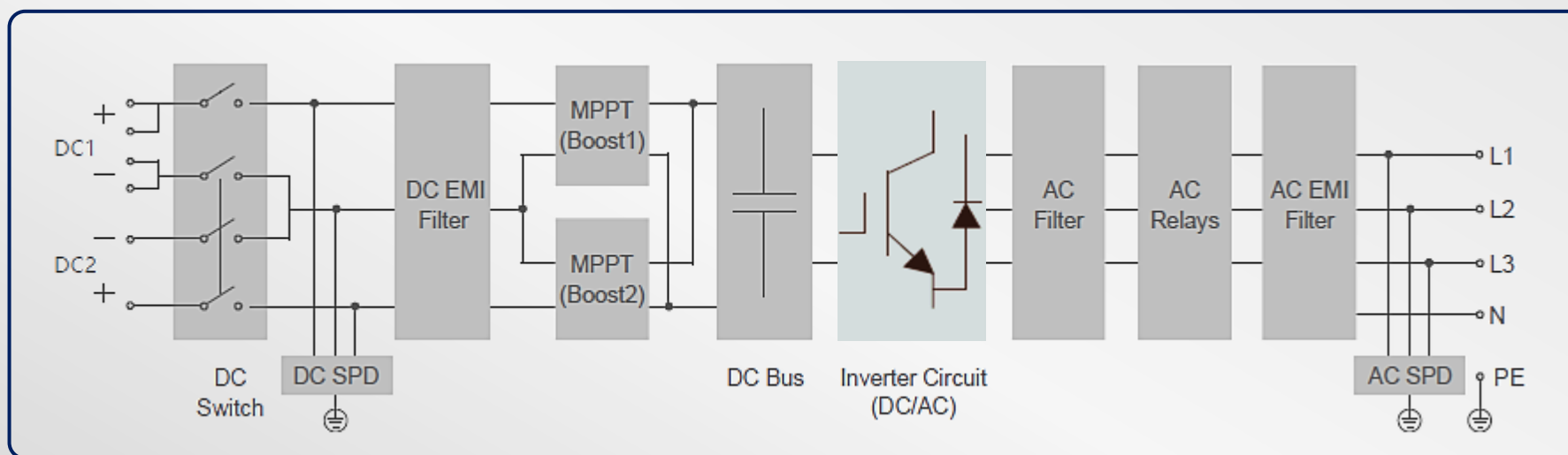
Compatible – Zero Export

The inverter features a Zero Export function among its settings. This function can be activated with the use of a current transformer, which has the ability to detect any current flow to the grid and communicate this information to the inverter.



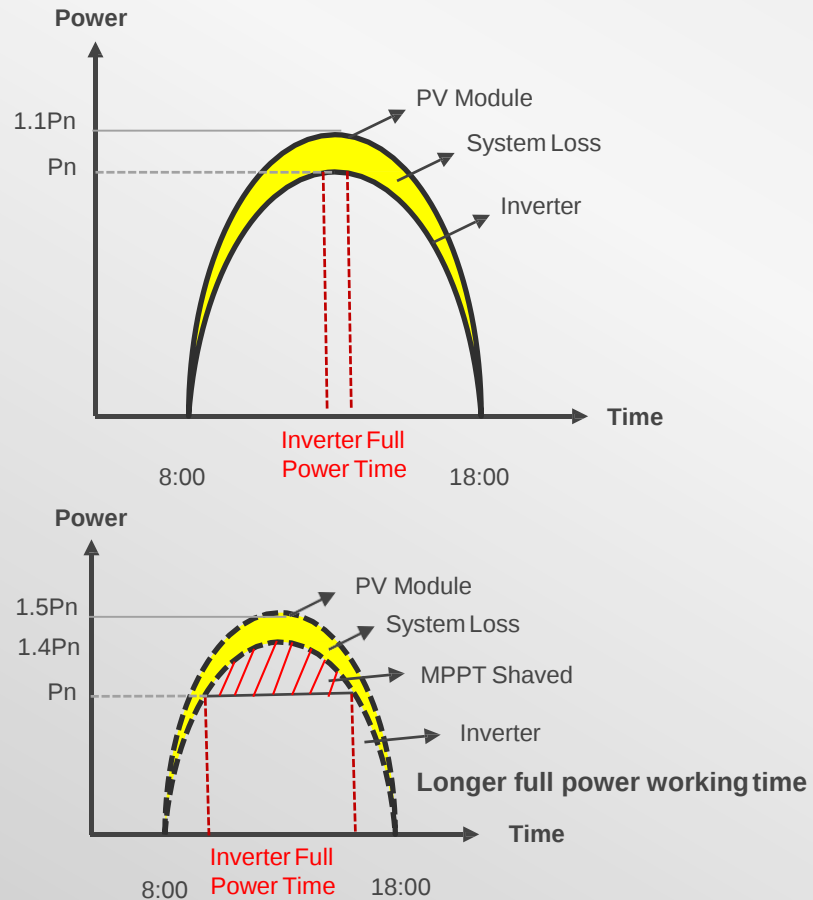
Reliable – DC & AC SPD

Built-in type II and Type III SPD on both DC&AC side respectively , which can protect the system from surge or lightning strikes.



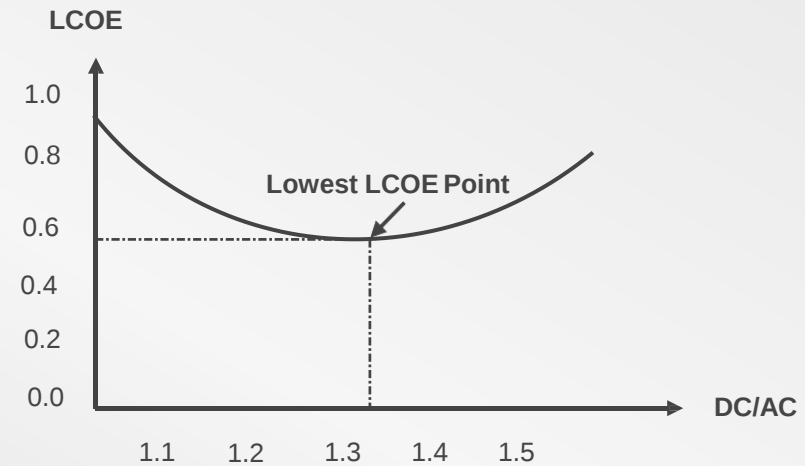
Functional Block Diagram of BluE-G

Efficient - Max. DC/AC Ratio 1.5



High DC/AC ratio up to 1.5

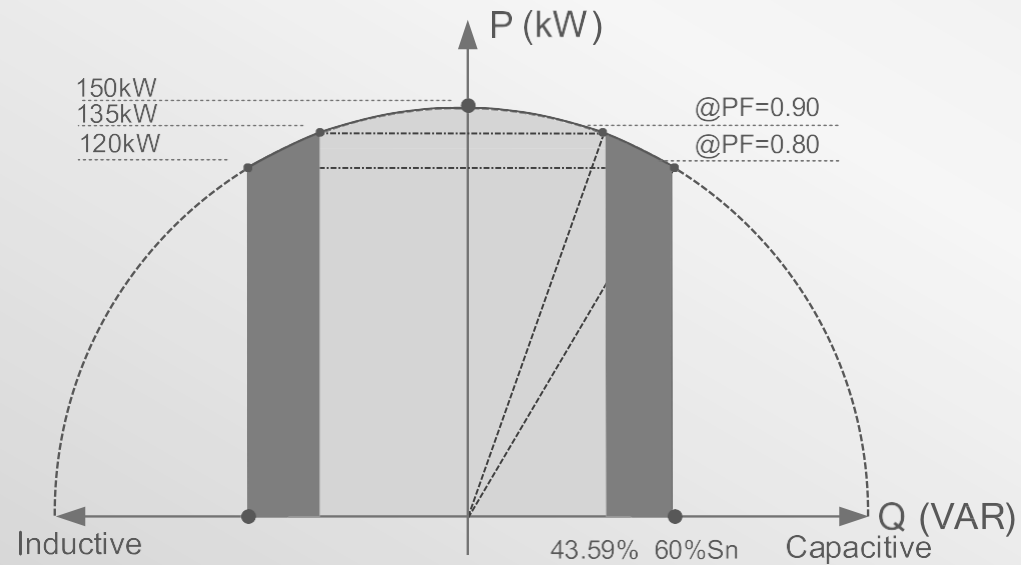
The high DC/AC ratio makes the full power working time of the inverter longer which can get more production, and can be used for low LCOE plant design.



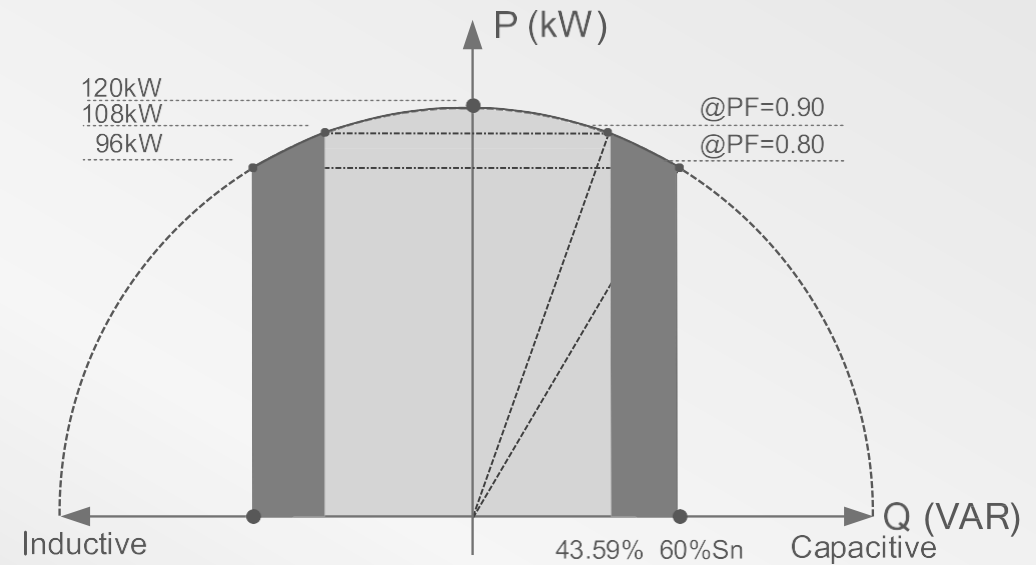
$$\text{LCOE} = \frac{\text{Total Life Cycle Cost}}{\text{Total Lifetime Energy Production}}$$

Economic – Support SVG Function

Inverters equipped with SVG function can achieve quick response to reactive power compensation, The max. reactive power output of the inverter reaches 60% of the apparent power, power factor ± 0.8 adjustable, save cost of the SVG equipment in the system.



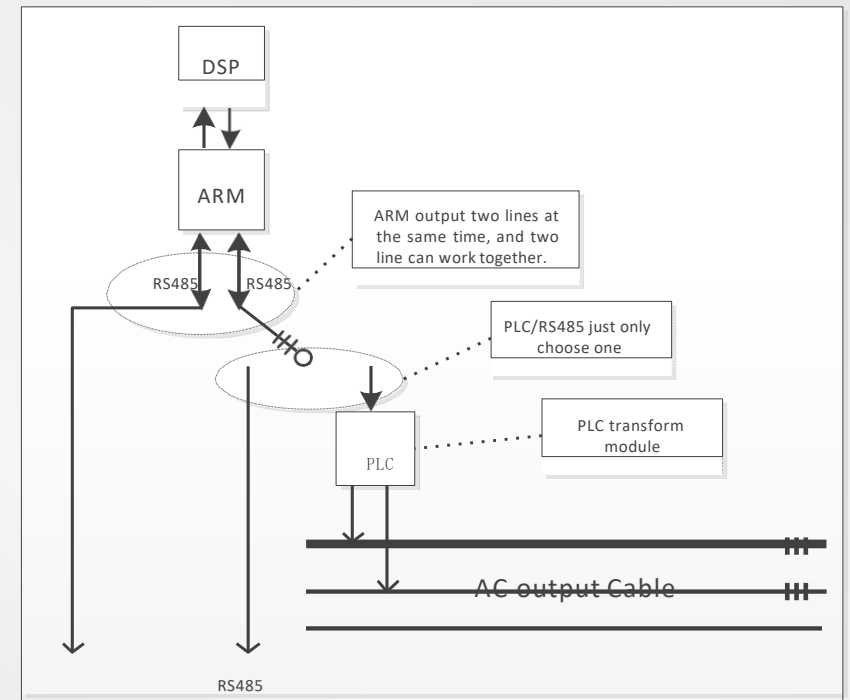
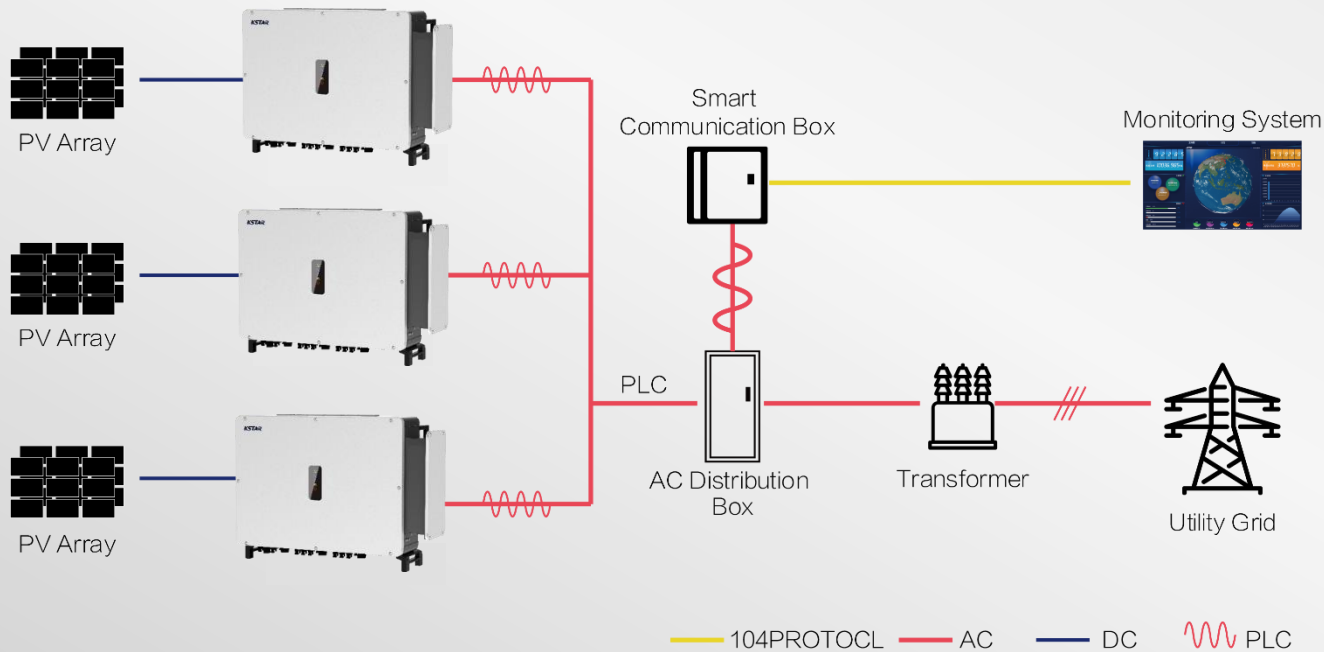
KSG-150UM PQ Curve



KSG-120CL PQ Curve

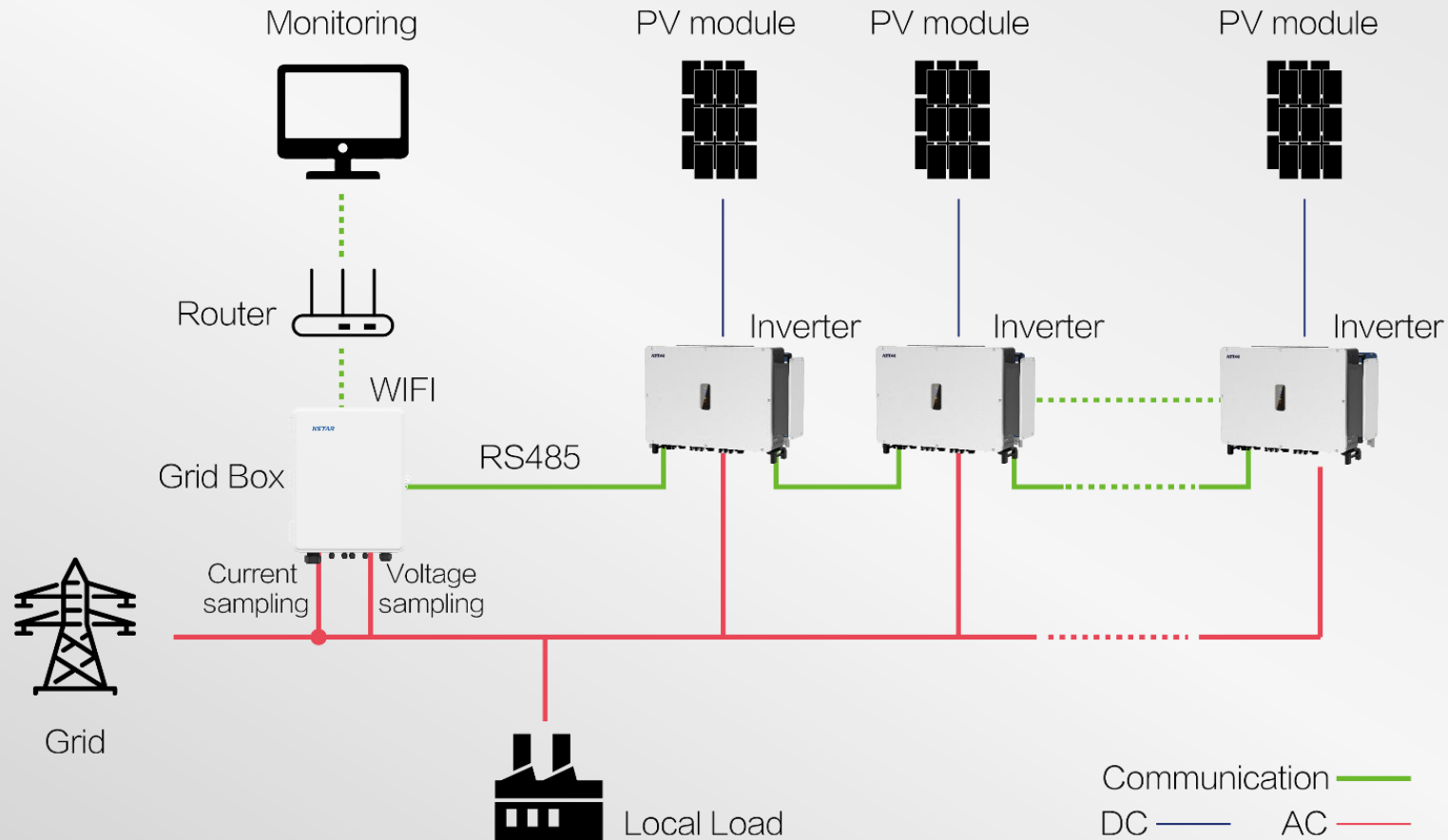
Economic – Support PLC Communication

No need arrangement of RS485 communication cable if PLC communication solution is chosen, save cost on the communication cable.



Intelligent – Export Control (SPC01 box)

Intelligent Export Control function is applicable for project in which the backflow power to public grid is not allowed (Zero Injection).



Interconnect – Online Monitoring

WiFi Plug or 4G Plug optional, Real-time online monitoring from anywhere at anytime by APP or PC Web.



The solution is designed to monitor load energy consumption in real time for 24 hours.

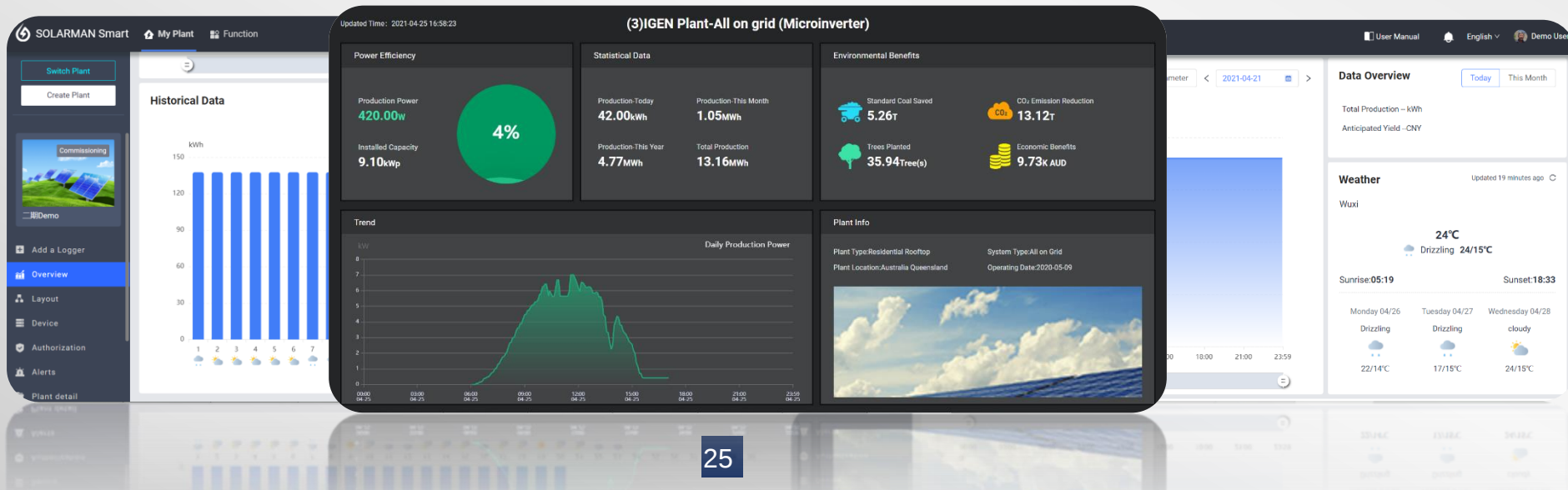
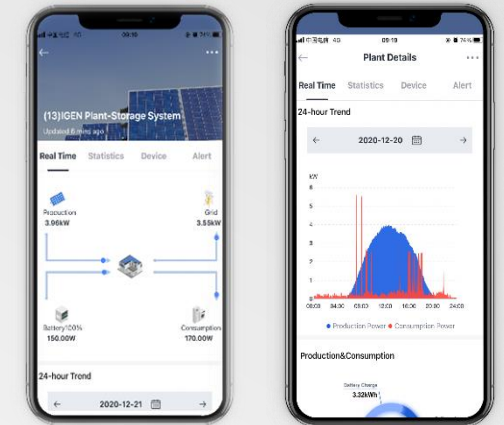
Based on the best design principles, the monitoring system is tailored to the needs of the home and requires only an internet connection. The data collected is stored in the cloud by Wi-Fi or 4G.

The end users benefit by achieving a better understanding of their electricity consumption and the source from which it is generated.

Interconnect – Smart Home Energy Management System

KSTAR cloud is an open protocol monitoring platform. It is designed to help operators to monitor a diverse range of PV plants operating at different places simultaneously.

It carries extensive data processing, including the production of customized charts. Its system of notifications and maintenance functions help the operators of PV assets to manage the generation of energy efficiently and comfortably, contributing to higher system yields.





PART 04

Reference

Powering Green Future

Reference



Reference



Reference

5MW Rooftop PV Plant in Haiphong, Vietnam



This project located on a rooftop of Haiphong City, Vietnam, The total power capacity is 5MW.

The project uses Kstar 1100V string inverter KSG-120CL.

 Haiphong City, Vietnam

Reference



2MW PV Plant in Yeong Chun, South Korea

This project located in Gyung Buk, Yeong Chun, South Korea,
The total power capacity is 2MW.

The project uses Kstar 1100V string inverter KSG-120CL.



South Korea

Reference



5MW PV Plant in Korea

This project located in qunchuan, Korea,
The total power capacity is 5MW.

The project uses Kstar 1100V string inverter
KSG-110CL.



Reference



2MW PV Plant in Korea

This project located in Korea,

The total power capacity is 2MW.

The project uses Kstar 1100V string inverter KSG-60KT.



Reference



3MW PV Plant in Fenghua, Korea

This project located in Korea,

The total power capacity is 3MW.

The project uses Kstar 1100V string inverter
KSG-60KT.



