



Main features

- ◆ Reserve the installation positions for the metering electricity meter and the collector.
- ◆ The viewing window of the electricity meter and the lead seal (for preventing electricity theft).
- ◆ The integrated design concept of the product, including the power distribution part and the metering part, is completed. All partitions reduce electromagnetic interference.
- ◆ Photovoltaic dedicated plastic-encrusted reclosing circuit breaker, with more reliable performance.
- ◆ It can be equipped with online power quality monitoring, anti-islanding protection devices, fault disconnection devices, etc.
- ◆ Outdoor and indoor installation options are available, making installation more convenient.
- ◆ Support special requirements and functional customization.

Product Overview

BENY

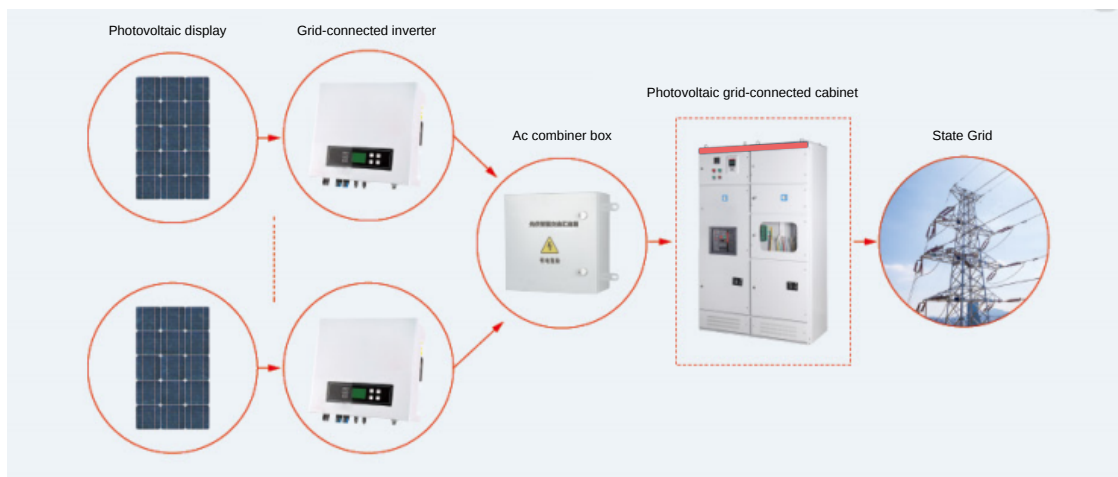
This product is mainly applied in high-power photovoltaic grid-connected power generation systems and is connected in series with grid-connected inverters (or AC combiner boxes). Between the power grid and the system, the product features low power grid voltage protection, overvoltage protection, input lightning protection, system overcurrent protection, and power grid isolation. A series of protections, multi-functional electricity meter display and fault status indication make the system operation status clear at a glance, and the product is smooth. It has passed industry standard CCC certification, CE certification, ISO9001 quality management system certification, etc.



Technical parameters

Product model	Rated short-circuit withstand current (1s)(KA)
Common string inverter power	15kw , 20kw , 25kw , 30kw , 35kw , 40kw , 45kw , 50kw , 55kw , 60kw
Inverter input channel number	Route 1 to Route 8 (It is recommended to be equipped with AC combiner boxes)
Grid-connected output channels	Route 1
Grid connection requirements	Three-phase grid connection
Grid-connected voltage	380Vac
Switch brand	Delixi, Chint, Changshu, ABB, Schneider

Product application system diagram



Protection function

Short-circuit protection	have
Lightning protection	There are (Nominal currents :In:20KA, I _{max} :40KA, up ≤ 4KA
Isolation protection (Visible breakpoint)	There is (knife switch/hand-pulled disconnecter)
Overvoltage and undervoltage protection	have
Automatic reclosing	have
The panel manually opens and closes the switch	have
Optional function	1. Online power quality monitor 2. Anti-island protection device; 3. Fault disconnection device

Grid connection switch

Residual current protector	1.When the power grid is cut off or the bias voltage exceeds 20%, the switch will be automatically opened. 2.When the power grid returns to normal, the switch will be automatically closed. 3.Manual operation and automatic operation can be switched.
Changshu plastic shell reclosing	1.When the power grid is cut off or the bias voltage exceeds 20%, it will automatically trip (the trip delay time is adjustable from 0 to 10 seconds). 2.When the power grid returns to normal, the switch will be automatically closed. 3.Manual operation and automatic operation can be switched.

Grid connection switch

Temperature and humidity	Operating temperature :-25 to +60°C Storage temperature :-40 to +70°C; Humidity :0-90% in a non-condensing box. Places free of corrosive gases (if any, please specify specifically)
Use altitude	≤3000M
Salt spray resistance	The standard salt spray test lasts for 336 hours

Conventional parameters

Cabinet material	Cold-rolled steel sheet with plastic coating and stainless steel
Applicable place	Indoor type (customizable for exterior type)
Cabinet type	Distribution room, metering room, transformer room, disconnecter room
Installation method	Vertical
Cabinet dimensions (depth * width * height)	600mm*800mm*2200mm
Reference weight	To be determined