

CONTACT US



Tel

+86 400 777 1331



E-mail

sales@gnetek.com



Web

www.gnetek.com



Address

5F/5, No.187 East Jinshan Rd, Suzhou High-tech Zone,
Jiangsu, China



Safety, Optimization, Supervision and Transformation of Smart PV System



Website



Facebook

COMPANY PROFILE

About Us

Jiangsu GNE New Energy Technology Co., Ltd (GNE) was founded in 2013, focusing on the R&D, production and sales of PV Energy Storage Systems, PV Module–Level Power Optimization Systems, Module–Level Rapid Shutdown Systems and Intelligent Monitoring Systems, and committed to providing global customers with complete solutions for PV ESS and MLPE (Module–Level Power Electronics) applications.

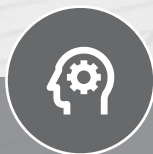
GNE has obtained more than 50 domestic and foreign inventions and patents, and has rich technical accumulation and practical experience in the field of PV power optimization and intelligent management. Our products include Hybrid inverters, PV power optimizers, rapid shutdown devices, module monitors, smart junction boxes, data processing equipment, and have been widely used in China, Europe, Japan, North America, South–East Asia, and other mainstream PV markets in the world, and has become a high–tech enterprise with international influence.

Mission

Bringing benefits to users, investors and employees, and contributing to the new energy business and energy–saving, environmental protection and low carbon society.

Vision

To be a global leading provider of new energy intelligent power optimization and security monitoring solutions.



Specializes

in developing and manufacturing solar optimization devices and intelligent monitoring system



Dozens

of Inventions and patents with independent intellectual property rights



Gradually

expanding to Europe, America, Japan and other major PV markets

CONTENTS

Hybrid Inverters

Queenbee–1P 8~10K 03

Optimization Solution

RF Communication Monitoring 05

PLC Communication Monitoring 06

Sole Power Optimizer | Honeybee650/700/850 ---- 07

Dual Power Optimizer | Honeybee1400/1600 09

Data Processing Device | Swarm&Beehive 11

Optimize Controller | Beetrans–Max–M 13

Rapid Shutdown Solution

On Site Rapid Shutdown Solutions 15

Rapid Shutdown + Monitoring Solutions 16

Dual RSD | Scoutbee1600M 17

Shutdown Controller | Beetrans–Max 19

Base Station PV Optimization Solution

Base station PV Optimization system diagram ... 21

Base–Station Optimizer Honeybee700B..... 23

Smart Combiner Box Hornet08/Hornet16 25

Data Cloud Center

Honeypot 27

Cases 29



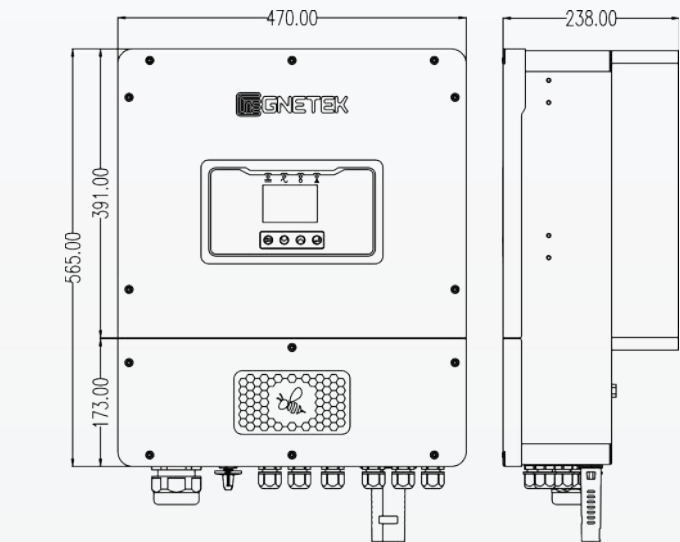
Hybrid Inverter

Queenbee-1P 8~10K

Functions & Features

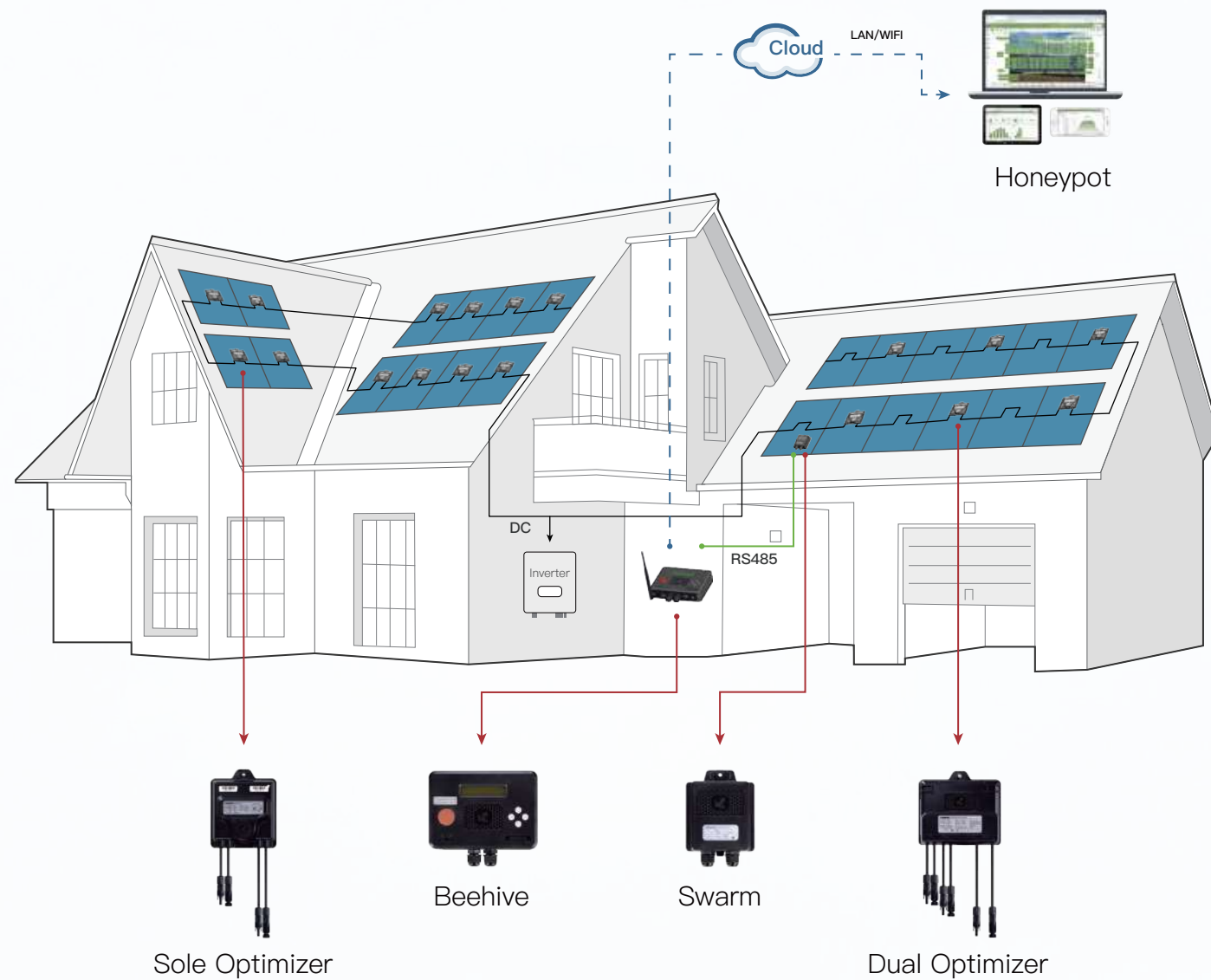


-  Supports up to 10 units in parallel (parallel off-grid mode)
-  Maximum charge/discharge current 190A
-  6 programmable charging and discharging time periods
-  Supports lithium and lead-acid batteries and parallel connection of multiple batteries
-  Supports AC coupling to retrofit existing PV systems
-  Supports direct battery charging by diesel generator
-  Supports arc detection



Model	Queenbee-1P8K	Queenbee-1P10K
Battery Input Data		
Battery Type	Lead-acid or Lithium-ion	Lead-acid or Lithium-ion
Battery Voltage Current (V)	40-60	40-60
Nominal battery voltage [V]	48	48
Max.Charging Current (A)	190	190
Max.Discharging Current (A)	190	190
Charging strategy for Li-Ion Battery	Self-adaption to BMS	Self-adaption to BMS
Number of Battery Input	1	1
PV String Input Data		
Max.PV Input Power (W)	10400	13000
Max.PV Input Voltage (V)	500	500
Start-up Voltage (V)	125	125
PV Input Voltage Range (V)	125-500	125-500
MPPT Voltage Range (V)	150-425	150-425
Full Load MPPT Voltage Range (V)	200-425	200-425
Rated PV Input Voltage (V)	370	370
Max.Operating PV Input Current(A)	32+32	32+32
Max.Input Short-Circuit Current(A)	44+44	44+44
No.of MPP Trackers/No.of Strings MPP Tracker	2/2+2	2/2+2
Max.Inverter Backfeed Current to The Array	0	0
AC Input/Output Data		
Rated AC Input/Output Active Power (W)	8000	10000
Max.AC Input/Output Apparent Power(VA)	8800	11000
Peak Power (off-grid)(W)	2 Times of rated power,10s	2 Times of rated power,10s
Rated AC Input/Output Current(A)	36.4/34.8	45.5/43.5
Max. AC Input/Output Current(A)	40/38.3	50/47.9
Max.Continuous AC Passthrough (grid to load)(A)	50	50
Max.Output Fault Current(A)	80	80
Max.Output Overcurrent Protection(A)	145	145
Rated Input/Output Voltage/Range(V)	220V/230V 0.8Un~1.1Un	220V/230V 0.8Un~1.1Un
Grid Connection Form	L+N+PE	L+N+PE
Rated Input/Output Grid Frequency/Range	50Hz/45Hz-55Hz 60Hz/55Hz-65Hz	50Hz/45Hz-55Hz 60Hz/55Hz-65Hz
Power Factor Adjustment Range	0.8 leading-0.8 lagging	0.8 leading-0.8 lagging
Total Current Harmonic Distortion THDI	<3% (of nominal power)	<3% (of nominal power)
DC Injection Current	<0.5%In	<0.5%In
Efficiency		
Max.Efficiency	97.60%	97.60%
Euro Efficiency	96.50%	96.50%
MPPT Efficiency	>99%	>99%
Security Protection	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, Thermal Protection, DC Terminal Insulation Impedance Monitoring, DC Component Monitoring, Ground Fault Current Monitoring, Arc Fault Circuit Interrupter (AFCI), Power Network Monitoring, Island Protection Monitoring, EarthFault Detection, DC Input Switch, Overvoltage Load Drop Protection, Residual Current(RCD) Detection, Surge Protection Level,	
Interface		
Display	LCD+LED	LCD+LED
Communication Interface	RS232,RS485,CAN	RS232,RS485,CAN
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)	GPRS/WIFI/Bluetooth/4G/LAN(optional)
General Data		
Operating Temperature Range	-40~+65°, >45°Derating	-40~+65°, >45°Derating
Permissible Ambient Humidity	0-100%	0-100%
Permissible Altitude	2000m	2000m
Noise	<30dB	<30dB
Ingress Protection(IP)Rating	IP 65	IP 65
Inverter Topology	Non-Isolated	Non-Isolated
Over Voltage Category	OVC II(DC),OVC III(AC)	OVC II(DC),OVC III(AC)
Cabinet size(W*H*D)[mm]	470*565*238 (Excluding connectors and brackets)	
Weight	30 kg	
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter,More Info Please Refer to Warranty Policy	
Type of Cooling	Intelligent Air Cooling	
Standard/Certification		
EMC	IEC 61000-6-1:2016 ; EN 61000-6-1:2019 ; IEC 61000-6-3:2020 ; EN 61000-6-3:2021	
IEC / EN	IEC 62109-1:2010 ; EN 62109-1:2010 ; IEC 62109-2:2011 ; EN 62109-2:2011	
CE	IEC 61727:2004 ; IEC 62116:2014 ; IEC 61683:1999	

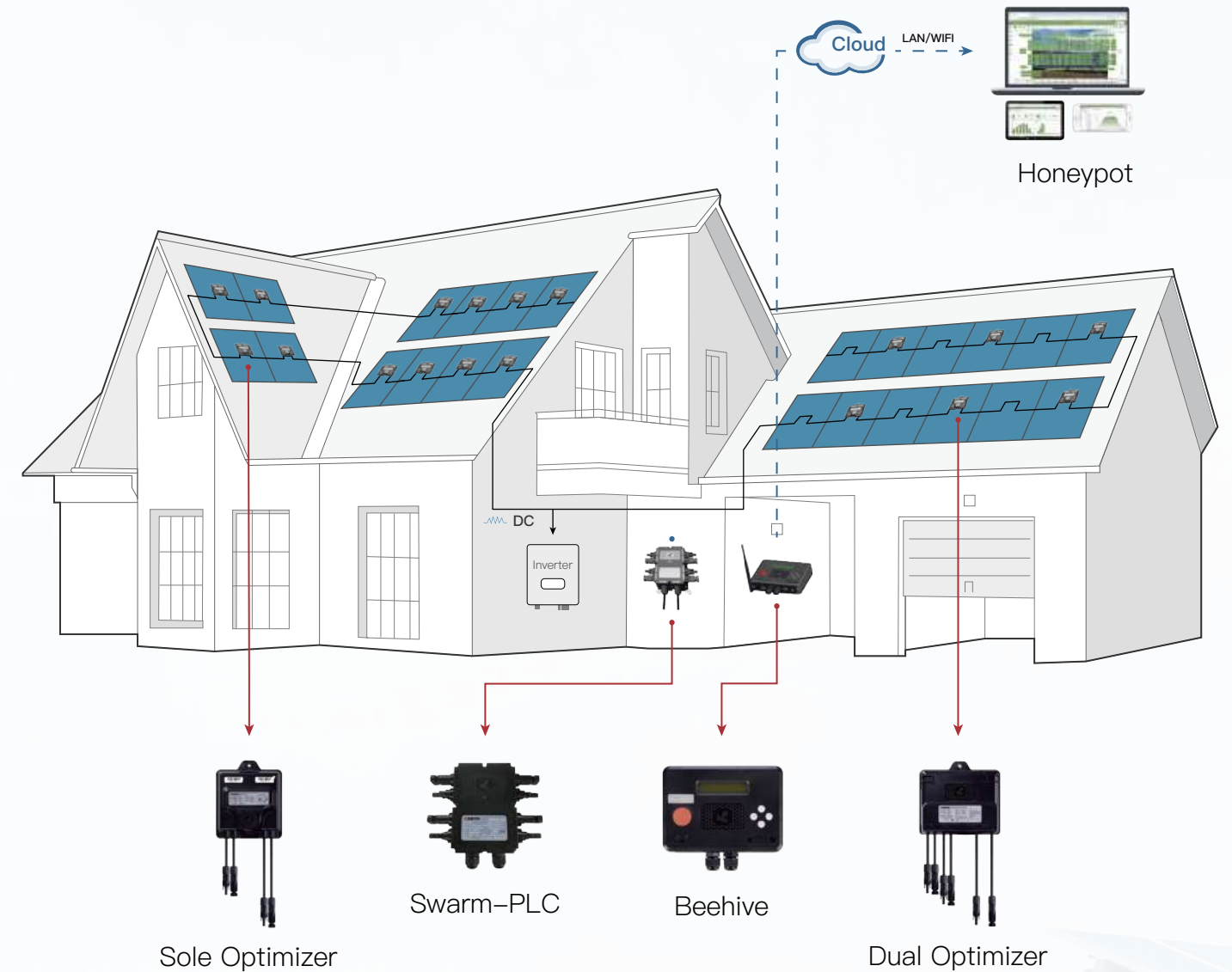
RF Communication Monitoring



Flexible Networking Convenient Installation

- **Significantly improve the power generation** of the entire PV power station, effectively track the maximum power of the module, and perfectly solve the power generation loss caused by the shadow, mismatch, module difference, etc.
- **Module-level monitoring** of the entire PV power station, including power, voltage, current, temperature, and other real-time data.
- **Module-level rapid shutdown** remotely or on site through GNE APPs or website monitoring platform, effectively preventing the risk of electric shock and improving the convenience and safety of Operation and Management.

PLC Communication Monitoring



Easy Wiring Stable Communication High Reliability

- **Significantly improve the power generation** of the entire PV power station, effectively track the maximum power of the module, and perfectly solve the power generation loss caused by the shadow, mismatch, module difference, etc.
- **Module-level monitoring** of the entire PV power station, including power, voltage, current, temperature, and other real-time data.
- **Module-level rapid shutdown** remotely or on site through GNE APPs or website monitoring platform, effectively preventing the risk of electric shock and improving the convenience and safety of Operation and Management.

Honeybee650/700/850

Sole Power Optimizer



160mm

1000mm

”

Functions & Features

»

- ⚙️ **Increase Efficiency:** Module-level MPPT tracking to increase system power generation by 5–30%
- ⚙️ **Safe and Reliable:** Functions with over-voltage, over-current, and over temperature protection, module level shutdown with one click to eliminate the danger of high voltage
- ⚙️ **Precise Positioning:** Real-time monitoring of each module and the entire station, timely failure detection and accurate positioning
- ⚙️ **Convenient Installation:** It can be directly connected to the existing PV power system without changing the original line
- ⚙️ **Ultra-long Life:** 25-year lifespan, match PV modules

Model	Honeybee650	Honeybee700	Honeybee850
Input			
Max. Input Power	650 W	700 W	850 W
Max. Input Voltage	75 VDC	75 VDC	75 VDC
Operating Voltage Range	12~75 VDC	12~75 VDC	12–75 VDC
MPPT Voltage Range	12~60 VDC	12~60 VDC	12–65 VDC
Isc	16 A	20 A	25 A
Max. Input Current	15 A	18 A	22 A
Output			
Max. Output Power	650 W	700 W	850 W
Voltage Range	0~75 VDC	0~75 VDC	0–75 VDC
Max. Output Current	15 A	18 A	22 A
Max. Efficiency	99.50%	99.50%	99.50%
Others			
Max. System Voltage	1500 VDC		
Operating Temperature Range	–40~+85 °C		
Relative Humidity	0~100%		
Ingress Protection	IP68		
Protective Class	II		
Communication	868M/915M 2.4G/PLC	2.4G	2.4G/PLC/HPLC
Installation Sprcification			
Cable length	Input: 160 mm *2 Output: 1000 mm *2 (or Customizable)	Input: 800mm, 200mm Output: 1000 mm *2 (or Customizable)	Input: 1000mm, 400mm Output: 1000 mm *2 (or Customizable)
Size	130.3x109.6x25 mm		
Weight	500 g		
Connector (Input/Output)	Compatible with Staubli MC4 or Customizable		
Standard / Certification			
CE	IEC/EN 62109–1:2010		
RoHs	2011/62EU 2015/863EU		
REACH	EU REACH Regulation No 1907/2006 Article 33		
WEEE	EN 50419:022		

※ The working status of PLC optimizers can be customized (Default on or off)

Honeybee1400/1600

Dual Power Optimizer



Functions & Features

- Increase Efficiency:** Module-level MPPT tracking to increase system power generation by 5–30%
- Safe and Reliable:** Functions with over-voltage, over-current, and over temperature protection, module level shutdown with one click to eliminate the danger of high voltage
- Precise Positioning:** Real-time monitoring of each module and the entire station, timely failure detection and accurate positioning
- Convenient Installation:** It can be directly connected to the existing PV power system without changing the original line
- Ultra-long Life:** 25-year lifespan, match PV modules

Model	Honeybee1400	Honeybee1600
Input		
Support Modules	2	2
Max. Input Power	700W/700W	800W/800W
Max. Input Voltage	60VDC/60VDC	60VDC/60VDC
Operating Voltage Range	13~60VDC/13~60VDC	13~60VDC/13~60VDC
MPPT Voltage Range	13~55VDC/13~55VDC	13~55VDC/13~55VDC
Isc	20A/20A	23A/23A
Max. Input Current	18A/18A	20A/20A
Ooutput		
Max. Output Power	1400 W	1600 W
Voltage Range	0~120 VDC	0~120 VDC
Max. Output Current	18 A	20 A
Max. Efficiency	99.50%	99.50%
Others		
Max. System Voltage	1500 VDC	
Operating Temperature Range	-40~+85 °C	
Relative Humidity	0~100%	
Ingress Protection	IP68	
Protective Class	II	
Communication	2.4G/HPLC	
Installation Sprcification		
Cable length (Input/Output)	Input 1: In1- 200 mm / In1+ 900 mm Input 2: In2- 1100 mm / In2+ 300 mm Output: Out- 2800 mm / Out+ 200 mm	
Size	144x130x26.8 mm	
Weight	1000 g	
Connector (Input/Output)	Compatible with Staubli MC4 or Customizable	
Standard / Certification		
CE	IEC/EN 62109-1:2010	
RoHs	2011/62EU 2015/863EU	
REACH	EU REACH Regulation No 1907/2006 Article 33	
WEEE	EN 50419:022	

※The working status of PLC optimizers can be customized (Default on or off)

Swarm & Beehive

Data Processing Device



Functions & Features

- Diverse combination:** Intelligent dynamic networking and unnetworking, network self-healing
- Multiple Internet Access:** Supports LAN/WiFi connection
- One-click Remote Shutdown:** Intelligent monitoring management platform, remotely turn off the output of modules with one click
- Strong Anti-interference:** Support data resumption, solve data packet loss problem

Model		Swarm
Basic Parameters		
Working Voltage	12 Vdc	
Working Current	25 mA	
Power Consumption	≤0.3 W	
Installation Sprcification		
Connector	RS485*2	
Wireless Range	(Swarm to Honeybee)≤30m	
Wireless Band	868M/915M/2.4G Hz	
Max. No. of Bees	≤200	
Size	124x99x32 mm	
Weight	150 g	
Working Temperature	−40~+85 °C	
Ingress Protection	IP65	
Standard / Certification		
CE	IEC/EN 62109–1:2010	
WEEE	EN 50419:022	
RoHS	2011/62EU 2015/863EU	
Model		Beehive
Basic Parameters		
Working Voltage	12 Vdc	
Working Current	250 mA	
Power Consumption	≤3 W	
Installation Sprcification		
Connector	RS485*2、RJ45、USB2.0	
No. of connectable Bees	≤1000 Pcs	
No. of connectable Swarms	≤5 Pcs	
Size	158x113x36.8 mm	
Weight	400 g	
Working Temperature	−20~+60 °C	
Ingress Protection	IP20	
Standard / Certification		
CE	IEC/EN 62109–1:2010	
WEEE	EN 50419:022	
RoHS	2011/62EU 2015/863EU	

Model		Swarm-PLC
Basic Parameters		
Support Strings	4	
Maximum input Current Per String	20 A	
Maximum System Voltage	1000V / 1500V	
Voltage & Frequency	12 Vdc	
Installation Sprcification		
Connector	Compatible with Staubli MC4	
Size	140x99x50.4 mm	
Weight	504 g	
Working Temperature	-40~+85 °C	
Ingress Protection	IP65	
Function		
Communication	RS485	
Local Rapid Shutdown Function	Support	
Remote Rapid Shutdown Function	Support	
Open Circuit Voltage	Support	
Automatic Shutdown After Power Failure	Support	
Support Production Models	Honeybee650/850/1600 (PLC Version)	
Standard / Certification		
CE	IEC/EN 62109-1:2010	
WEEE	EN 50419:022	
RoHS	2011/62EU 2015/863EU	



Shutdown Controller

Beetrans-Max-M

Description

Achieve module-level monitoring and rapid shutdown functionality by collecting data via HPLC or sending shutdown/upgrade commands to HPLC optimizers.

Beetrans-Max-M can be equipped with 4 pairs of magnetic rings and supports up to 32 strings of up to 500 Optimizers.

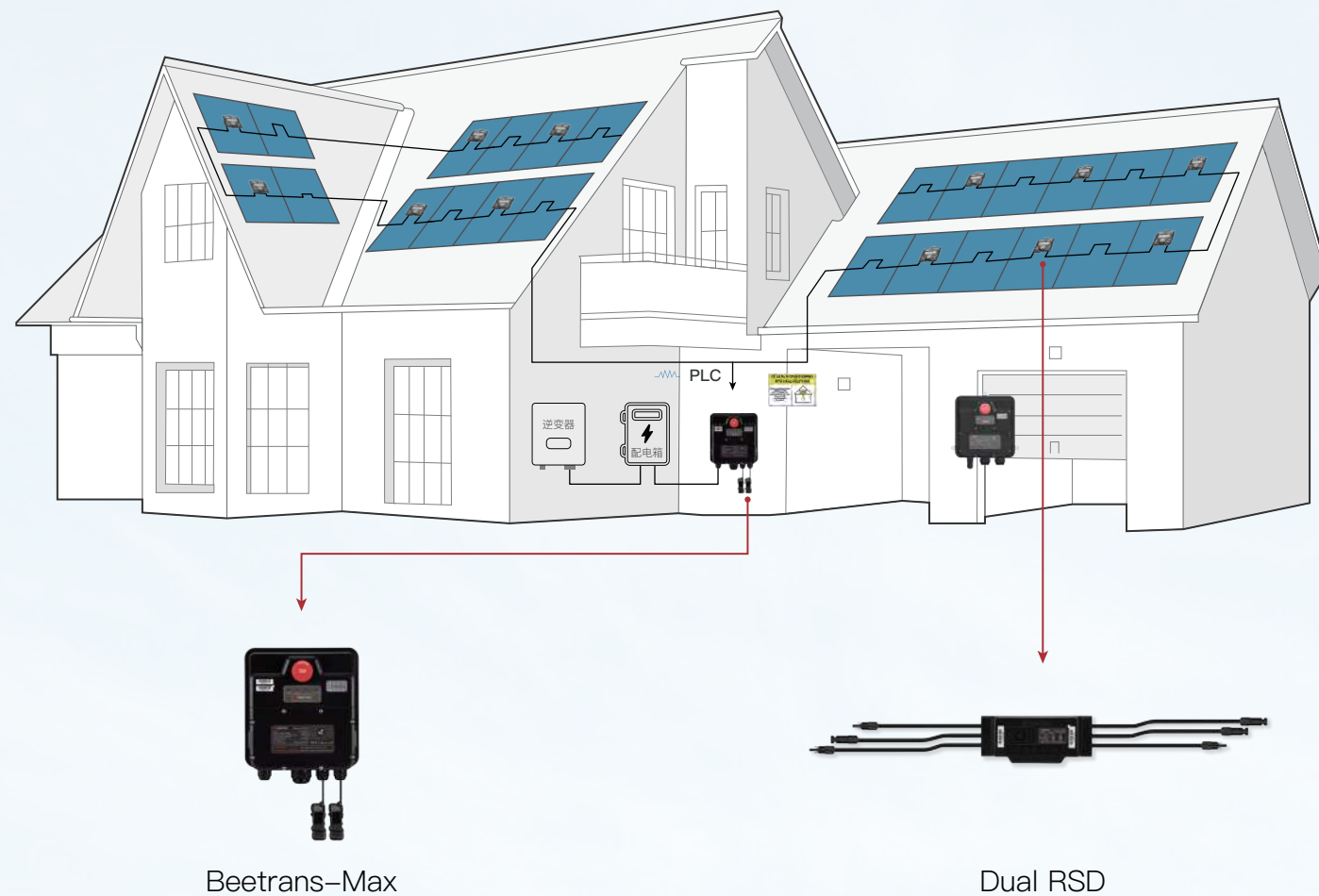
Pressing the red “Emergency Button” or disconnecting AC power to the Beetrans-Max-M will shut off the output of each Optimizer.

Functions & Features

- Module-level rapid shutdown within 2 seconds.
- Complied with NEC 2017&2020 690.12 requirements and UL1741/UL3741 regulations
- HPLC communication with Optimizers Honeybee850/1600HPLC for rapid shutdown function
- Advanced crosstalk prevention solution
- Weatherproof outdoor enclosure
- Easy to install and operate

Code		Beetrans–Max–M			
Specification					
Maximum No. of Core equiped		4pairs			
Maximum No. of String supported		4*8 strings			
Maximum String Voltage		1500 V			
Maximum No.of Optimizer Controlled		500			
Communication method		HPLC			
Access to Internet		LAN /WiFi			
Application					
Working temperature range		-25~+65 ℃			
Relative Humidity range		0~100%			
Ingress Protection		NEMA Type3R / IP65			
Certification					
Regulations		NEC 2017&2020 690.12			
CE		NEC2017/2020 690.12B			
ETL		UL1741 / UL3741			
RoHS		CSA C22.2 No.330			
Structure					
Size		220x210x65 mm (excluding cable length)			
Weight		850 g			
Power supply parameters		85–264VAC			
Magnetic Ring Parameters					
Inside diameter / Outside diameter		29mm / 65mm			
Maximum current per ring		160A			
Number of strings supported by each ring		8			
Corresponding to the outer diameter of the string cable		Φ5.9mm	Φ6.35mm	Φ7mm	Φ8.6mm

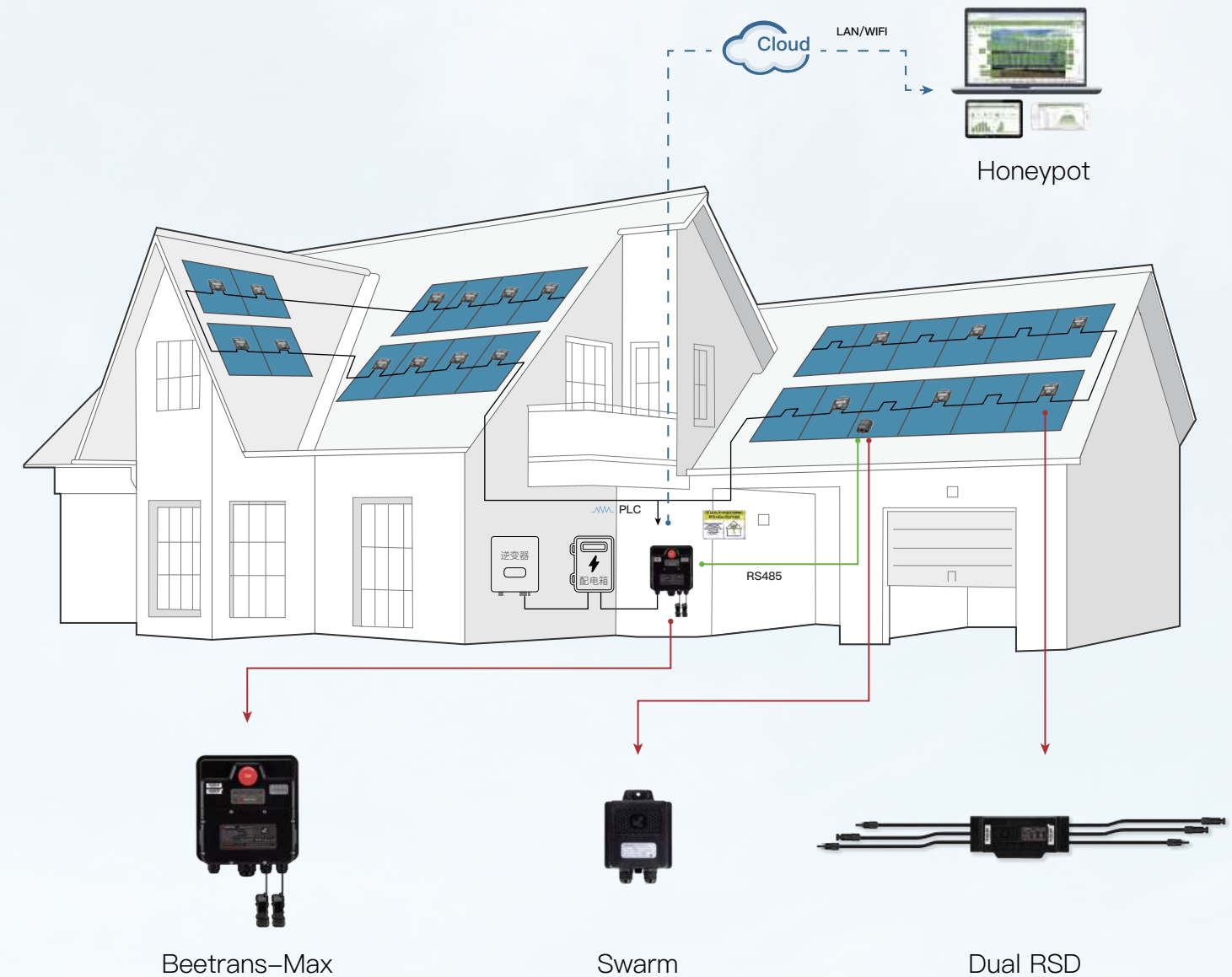
On-Site Rapid Shutdown Solutions



Convenient Cabling Easy installation Efficient Solution

- **Safety Regulations:** Meets the requirements of NEC 2017 & 2020 (690.12), UL1741 and UL3741.
- **Rapid Shutdown:** Each module will be shut down and the string voltage will drop to the safe voltage range (< 30V) within 30 seconds after pressing the emergency button to prevent the risk of electric shock.

Rapid Shutdown and Monitoring Solutions



Flexible Configuration Easy Networking Remote Monitoring

- **Safety Regulations:** Meets the requirements of NEC 2017 & 2020 (690.12), UL1741 and UL3741.
- **Rapid Shutdown:** Each module will be shut down and the string voltage will drop to the safe voltage range (< 30V) within 30 seconds after pressing the emergency button to prevent the risk of electric shock.
- **Remote Monitoring:** Module-level monitoring and accurate failure positioning for convenient maintenance and operation.

Scoutbee1600M

Dual Rapid Shutdown Device



Functions & Features

- Module-level Rapid Shutdown:** Reduce and eliminate the risk of electric shock, improve the safety of the power station
- Safe and reliable:** With functions of overcurrent, overvoltage, and overheating protection
- Automatic Shutdown:** The default shutdown state to ensure the personal safety of installation and maintenance personnel
- Convenient Installation:** It can be directly connected to the existing PV power system without changing the original line
- Ultra-long Life:** 25-year lifespan, matching PV modules

Product Code		Scoutbee1600M
Input		
Support Modules		2
Max. Input Power Per Module		800W/800W
Max. Input Voltage Per Module		75VDC/75 VDC
Operating Voltage Range Per Module		12~75VDC/12~75 VDC
Max. Input Current		20 A
Output		
Voltage Range		0~150 VDC
Max. Output Current		20 A
Max. Output Power		1600 W
Shutdown Voltage		1.6~2 VDC
Efficiency		>99.8%
Default Working State		Shutdown
Shutdown Time		1 Second
Communication		
Rapid Shut Down		PLC: Power Line Communication
Real-time Monitoring		2.4 G
Others		
Temperature range		-40 ~ +85 °C
Relative humidity range		0~100 %
Ingress Protection		IP68 / NEMA Type 6P
Protective Class		II
Installation Specification		
Cable length (Input/Output)		Input 1: in1- 260 mm / in1+ 1160 mm Input 2: in2- 1160 mm / in2+ 260 mm Output: out- 2760 mm / out+ 160 mm
Size		121×86×20 mm
Weight		700 g
Connector (Input/Output)		Compatible with MC4,Staubli
Standard / Certification		
regulations		NEC 2017&2020 690.12
CE		IEC/EN 62109-1:2010
RoHs		2011/62EU 2015/863EU
REACH		EU REACH Regulation No 1907/2006 Article 33
ETL		UL1741 / UL3741
WEEE		EN 50419:022



Shutdown Controller

Beetrans-Max

Description

As part of GNE rapid shutdown solution, the shutdown controller Beetrans-Max is designed to work with GNE RSD for module-level shutdown.

Beetrans-Max continuously sends turn-on signals to GNE RSD to activate normal power output.

Beetrans-Max can be equipped with 4 magnetic rings and supports up to 60 strings of up to 30 PV modules each.

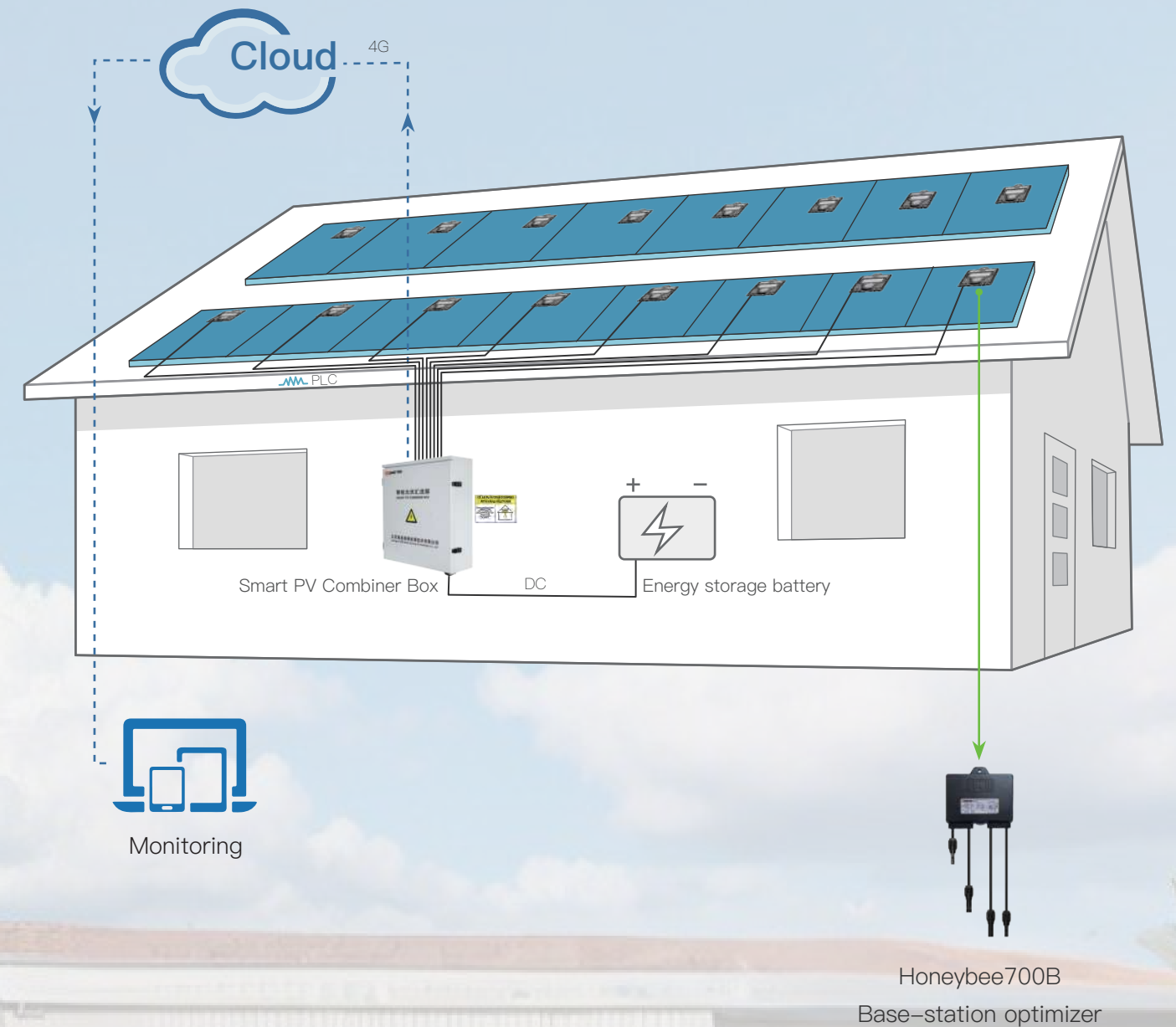
Pressing the red “Emergency Button” or disconnecting AC power to the Beetrans-Max will shut off the output of each RSD.

Functions & Features

- Module-level rapid shutdown within 1 second
- Complied with NEC 2017&2020 690.12 requirements and UL1741/UL3741 regulations
- PLC communication with RSD for rapid shutdown function
- Advanced crosstalk prevention solution
- Weatherproof outdoor enclosure
- Easy to install and operate

Code		Beetrans-Max			
Specification					
Maximum No. of Core equipped		4			
Maximum No. of String supported		4*15 strings			
Maximum String Voltage		1000 / 1500 V			
Maximum No.of Panels Controlled		1800			
Communication method		PLC			
Access to Internet		LAN /WiFi			
Application					
Working temperature range		-25~+65 ℃			
Relative Humidity range		0~100%			
Ingress Protection		NEMA Type3R / IP65			
Certification					
Regulations		NEC 2017&2020 690.12			
CE		IEC/EN 62109-1:2010a			
ETL		UL1741 / UL3741			
RoHS		2011/62EU 2015/863EU			
Structure					
Size		220x210x65 mm (excluding cord length)			
Weight		850 g			
Power supply parameters		85-264VAC			
Magnetic Ring Parameters					
Inside diameter / Outside diameter		29mm / 65mm			
Maximum current per ring		160A			
Single magnetic ring supports the number of string combinations		8			
Corresponding to the outer diameter of the string cable		Φ5.9mm	Φ6.35mm	Φ7mm	Φ8.6mm

Base Station PV Optimization Solution



Parallel System Increasing Voltage Security Intelligence

- GNE smart combiner box working together with GNE PV optimizer Honeybee700B are used in the base station PV system.
- The base-station optimizers Honeybee700B are connected to the PV modules, tracking the maximum power point of the modules and connected in parallel to the combiner box. The combiner box monitors the operating data and status of the optimizers in real time, and can adjust the output voltage range of each optimizer.
- The combiner box is connected to the DC busbar in the server room, prioritizing the use of PV power to supply power to the base station.

Honeybee700B

Base Station Optimizer



Functions & Features

- Increase Efficiency:** Module-level MPPT tracking to increase system power generation by 5–30%
- Safe and Reliable:** Functions with over-voltage, over-current, and over temperature protection, module level shutdown with one click to eliminate the danger of high voltage
- Precise Positioning:** Real-time monitoring of each module and the entire station, timely failure detection and accurate positioning
- Convenient Installation:** Applied to off-grid PV power station with energy storage batteries
- Ultra-long Life:** 25-year lifespan, match PV modules

Model		Honeybee700B
Input		
Max. Input Voltage		60 V
Max. Input Current		20 A
Max. Input Power		700 W
MPPT Voltage Range		25~55 V
Output		
Voltage Range		42~58 V
Max. Output Current		17 A
Max. Output Power		700 W
Max. Efficiency		99.60%
Protection Function		
Input Overvoltage		Yes
Input Overvoltage Recovery		Yes
Input Undervoltage		Yes
Input Undervoltage Recovery		Yes
Input Overcurrent		Yes
Input Overcurrent Recovery		Yes
Input Overload		Yes
Input Overload Recovery		Yes
Output Overvoltage		Yes
Output Overvoltage Recovery		Yes
Output Overcurrent		Yes
Output Overcurrent Recovery		Yes
Overtemperature		Yes
Others		
Operating Temperature Range		-40~+85 °C
Relative Humidity		0~100%
Ingress Protection		IP68
Protective Class		II
Communication		PLC(Power Line Communication)
Installation Specification		
Size		130×122.9×28 mm
Input/Output Cable Length		Input: 1000 mm *2; Output: 160 mm *2 (or Customizable)
Connector(Input/Output)		Compatible with Staubli MC4 or Customizable
Standard/Certification		
CNAP		NB/T 42143-2018
		NEC 690.12-2017

※The optimizer can be set to off when Input: Overvoltage/Undervoltage/Overcurrent/Overload, Output: Overvoltage/Overcurrent/Overtemperature.

Hornet08/Hornet16

Combiner Box



A grey metal combiner box with a yellow lightning bolt warning symbol on the front door. The box has several black terminal blocks at the bottom and a small lock on the right side.

“

Functions & Features

»

- ⚙️ Intelligent Branch Current Combiner
- ⚙️ Real-time Module-Level Monitoring, Collecting Optimizer Status Information, Refined Operations to Reduce Costs and Increase Efficiency
- ⚙️ Reliable Protection Mechanisms: Input Fuse Protection, DC Lightning Protection, Output Circuit Breaker Protection
- ⚙️ Independent DC Meter for Power Generation Measurement
- ⚙️ RS485 Interface and Wireless Communication Module to Adapt to Various Networking and Data Transmission Needs

Model	Hornet08	Hornet16
Input		
Standby Power Consumption	≤4 W	≤6 W
Maximum Input Current	145 A	290 A
Maximum DC Voltage	60 V	
Input Voltage Range	40~60 V	
Performance Parameters		
DC Meter	Internal	
Number of Input/Output Circuits	8/1	16/2
Fusing Capacity per Circuit	20 A	
Insulation Resistance	≥2 MΩ	
Surge Protection	Maximum Discharge Current: 40KA	
Grounding Resistance	≤0.1 Ω	
Emergency Stop Switch	Disconnect Combiner Output and Busbar	
Communication		
Communication Methods	PLC/RS485	
Monitoring Methods	4G/Ethernet	
Other Parameters		
Installation Method	wall-mounted	
Product Dimensions	340x330x109.5 mm	
Product Weight	7.5 kg	9.2 kg
Temperature Range	-40℃-60℃	
Relative Humidity Range	≤95% (Non-condensing)	
Altitude	≤3000m	
Protection Rating	IP66	
Standard/Certification	NB/T 42143-2018 ; NEC 690.12-2017 ; QZTT2231-2019 GB/T34936-2017 ; YD/T 2321-2020	

Honeypot

Data Cloud Center



website:
<https://gne.gnetek.com/#/login>

Functions & Features

- ⚙️ Dynamically display the status of entire PV power station and every module in real-time
- ⚙️ Promptly locate the system failure and inform user by email or short message
- ⚙️ Remotely deactivate the optimizers for maintenance or emergency purposes
- ⚙️ Multi-terminal login: PC, PAD and smart phone
- ⚙️ Historical data query, big data analysis and automatical table report

1. Real time Monitoring



2. Power Trends



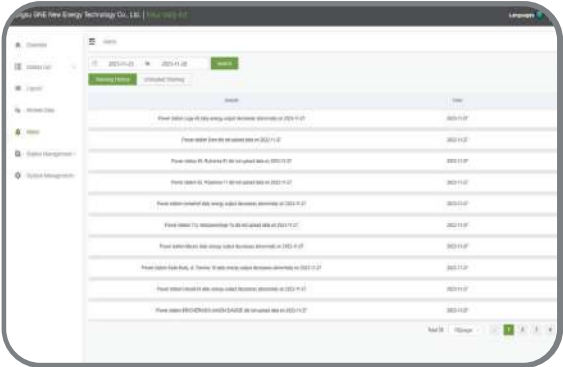
3. Generating Summary



4. Date Query



5. Warning



6. Emergency Shutdown



Cases

► Colgate 1.25MW PV Rooftop Station in Guangzhou, China



► 265MW PV Station in Tongchuan China



50KW PV Station in Ibaraki, Japan ◀



5MW Floating Project in Bangkok, Thailand ◀





► 54.5KW PV Station in Nantong, China



► 875KW PV Station in Takasaki, Japan



► 30KW Rooftop PV Station in Sofia, Bulgaria

► 10.08KW Rooftop PV Station in Poland



Optimizers bring more benefits to PV stations