



PV Module-Level Rapid Shutdown & Monitoring Solutions



GNE New Energy

COMPANY PROFILE >>

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

GNE has obtained more than 40 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, but are not limited to, PV power optimizers, rapid shutdown devices, module monitors, smart junction boxes, data processing equipment, and more. It has been widely used in China, Europe, Japan, the United States 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.

50+
Patents



300+
Employees



3GW+
Installed



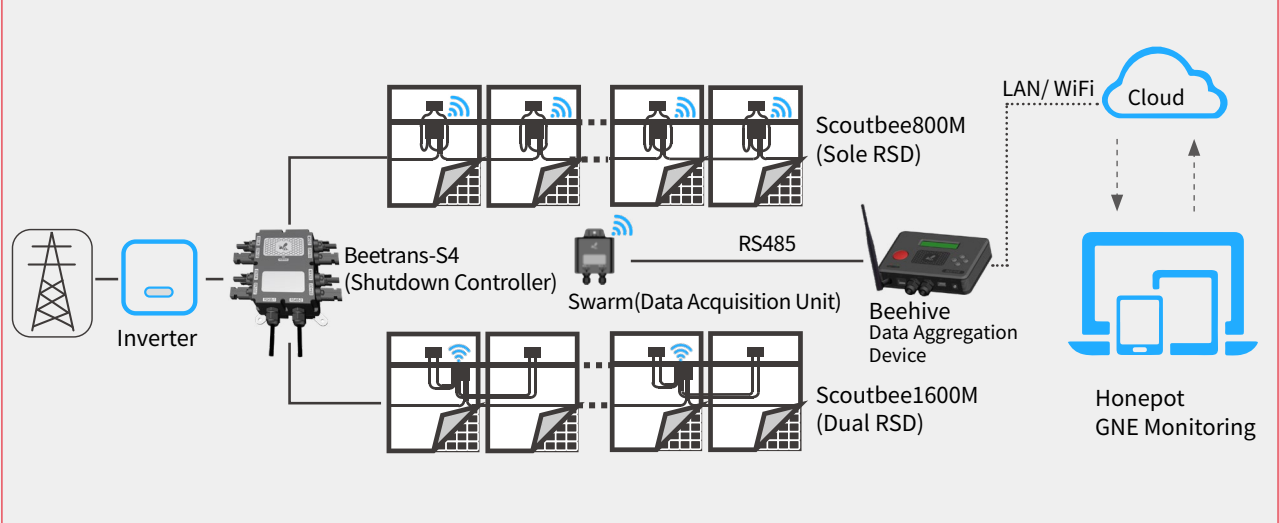
40+
Countries



GNE Rapid Shutdown & Monitoring Solutions

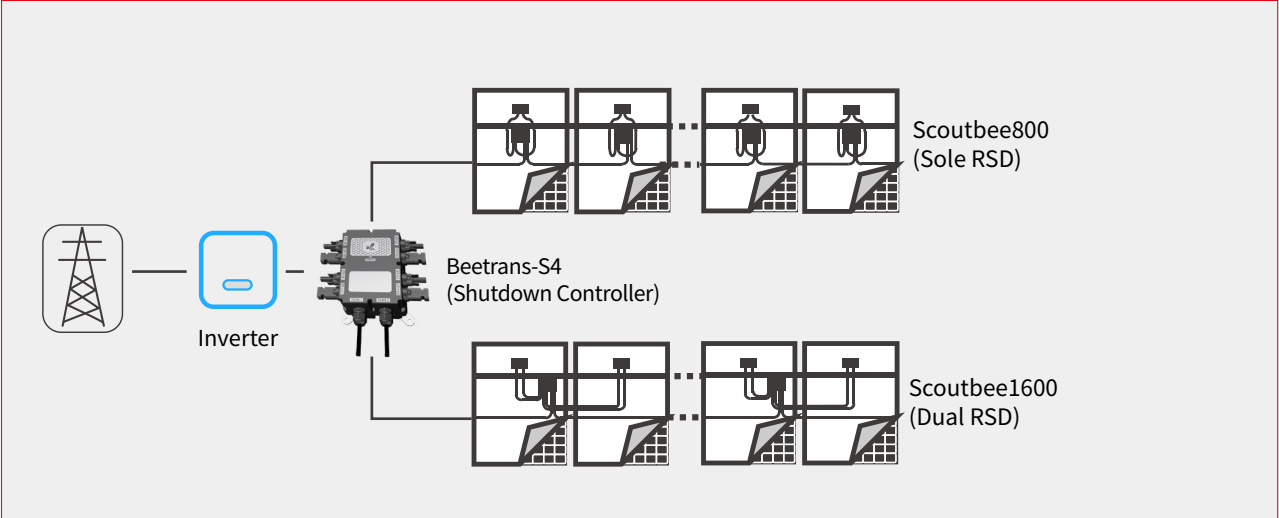
- ▶ **Safety Regulations:** Meets the requirements of NEC 2017 & 2020 (690.12).
- ▶ **Emergency Shutdown:** Each module will be shut down and the string voltage will drop to the safe voltage range (< 30V) within 30 seconds after pressing the emergency button to prevent the risk of electric shock.
- ▶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

Rapid Shutdown and Monitoring Solutions



Flexible Configuration Easy Networking Remote Monitoring

On-Site Rapid Shutdown Solutions



Convenient Cabling Easy installation Efficient Solution

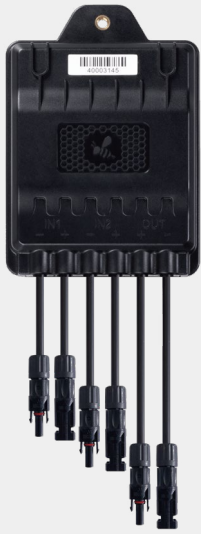


Sole Rapid Shutdown Device

Product 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

Model	Scoutbee800	Scoutbee800M
INPUT		
Max. Input Power	800W	
Max. Input Voltage	80V	
Operating Voltage Range	12 ~ 80V	
Max. Input Current	20A	
OUTPUT		
Voltage Range	12~80V	
Max. Output Current	20A	
Max. Output Power	800W	
Shutdown Voltage	0.8~1V	
Efficiency	>99.8%	
Default Working State	Shutdown	
ShutdownTime	15 S	
COMMUNICATION		
Rapid Shutdown	PLC (Power Line Communication)	
Real-time Monitoring	NO	Wireless (868/915M/2.4G)
OTHERS		
Temperature range	-40 ~ +85 °C	
Relative humidity range	0~100 %	
Ingress Protection	IP68	
Protective Class	II	
INSTALLATION SPECIFICATION		
Max. No. of Modules per String	30 pcs	
Input Cable Length	200mm	
Output Cable Length	1000mm	
Size	107×82×20mm	
Weight	360g	
Connector (Input/Output)	Compatible with MC4	
STANDARD / CERTIFICATION		
Regulations	NEC 2017 (690.12)	
Safety	IEC/EN 62109-1:2010 the Low Voltage Directive(2014/35/EU)	
EMC	EN IEC 61000-6-2:2019 EN 61000-6-3:2007/+A1:2011 the EMC Directive(2014/30/EU)	
Certification	CE	



Dual Rapid Shutdown Device

Product 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

Model	Scoutbee1600	Scoutbee1600M
INPUT		
Number Of Module	2 pcs	
Max. Input Power	800W / 800W	
Max. Input Voltage	80V / 80V	
Operating Voltage Range	12~80V / 12~80V	
Max. Input Current	20A / 20A	
OUTPUT		
Voltage Range	0~160V	
Max. Output Current	20A	
Max. Output Power	1600W	
Shutdown Voltage	1.6~2V	
Efficiency	>99.8%	
Default Working State	Shutdown	
Shutdown Time	15 S	
COMMUNICATION		
Rapid Shutdown	PLC(Power Line Communication)	
Real-time Monitoring	NO	Wireless (868M/915M/2.4G)
OTHERS		
Temperature range	-40 ~ +85 °C	
Relative humidity range	0~100 %	
Ingress Protection	IP68	
Protective Class	II	
INSTALLATION SPECIFICATION		
Max. No. of Modules per String	30 pcs	
Input Cable Length	200mm / 300mm	
Output Cable Length	1600mm	
Size	121×86×20mm	
Weight	530g	
Connector (Input/Output)	Compatible with MC4	
STANDARD / CERTIFICATION		
Regulations	NEC 2017 (690.12)	
Safety	IEC/EN 62109-1:2010 the Low Voltage Directive(2014/35/EU)	
EMC	EN IEC 61000-6-2:2019 EN 61000-6-3:2007/+A1:2011 the EMC Directive(2014/30/EU)	
Certification	CE	



Shutdown Controller

Product features

- ▶ **Support up to 4 Strings:** A single controller supports 2 or 4 strings to meet the installation needs of small rooftop power stations
- ▶ **Supports up to 10 cascaded devices:** The Beetrans series can be cascaded up to 10 units to support medium and large PV power stations
- ▶ **Safe and Reliable:** Real time detection of string voltage to make PV system safer
- ▶ **Remote Monitoring:** Easy to realize module-level monitoring and management with GNE monitoring kit

Model	Beetrans-S4	Beebox-S
INPUT		
Maximum Input Current Per String	20A	
Support Strings	4 Strings	2 Strings
Cascada control	YES	NO
Maximum number of cascading	10	NO
Maximum System Voltage	1000 V / 1500 V	
Voltage & Frequency	12Vdc	100~240Vac; 50/60Hz; 1Aac
INSTALLATION SPECIFICATION		
Connector	Compatible with MC4	
Size	140 x 99 x 50.4 mm	220 x 210 x 65 mm
Weight	504 g	880 g
Working Temperature	- 40 ~ +85°C	
Ingress Protection	IP65	
FUNCTION		
Default Internet Access	NO	LAN+WIFI
Local Rapid Shutdown Function	YES	
Remote Rapid Shutdown Function	Optional	YES
Open Circuit Voltage	YES	
Automatic Shutdown After Power Failure	YES	
DC arc Detection Function	NO	YES
Support Production Models	Scoutbee800/800M/1600/1600M	
Data Transmission Frequency	NO	5 Min(PV Status)
STANDARD/CERTIFICATION		
Regulations	NEC 2017/2020 690.12	NEC 2017 690.12
Safety	IEC/EN 62109-1:2010 the Low Voltage Directive(2014/34/EU) UL1741,UL3741,CSA C22.2,UL1703	IEC/EN 62109-1:2010 the Low Voltage Directive(2014/35/EU)
EMC	EN IEC 61000-6-2:2019 EN 61000-6-3:2007/+A1:2011 the EMC Directive(2014/30/EU)	
Certification	CE	

Cases



50KW PV Station in Ibaraki, Japan



5MW Water-Floating PV Station in Bangkok, Thailand



13.2kW Rooftop PV Station in Burlington, Canada



1MW Ground PV Station in Shanxi, China



10.08kW Rooftop PV Station in Poland



6KW Rooftop PV Station in California, USA



GNE Website



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