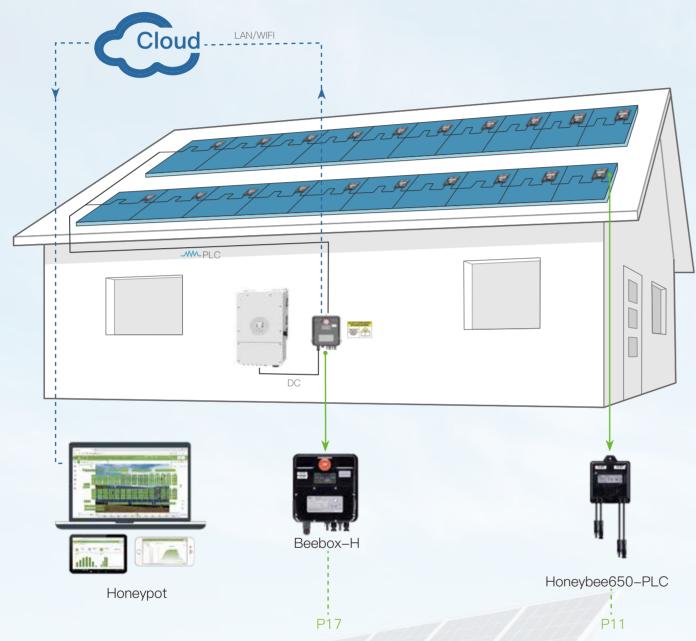
## GNE

## PLC Optimizer System Diagram



- Optimize power generation: Optimizer tracking maximum power point in input of each module and adjust maximum output to boost energy yield. Perfectly solve the power loss cause by module shading, module variances and modules mismatch.
- Real-time module-level monitoring: Optimizer collects current, voltage and temperature of each module in real-time and displays
  in monitoring system.
- Rapid shutdown(PLC): This solution complies with NEC 2014, 2017, and 2020 690.12 requirements. The PLC optimizer is on standby mode, activated after receive "operate "signal from Beebox-H. Rapid shutdown entire system by stop sending

## Rapid Shutdown (RSD)

## Rapid Shutdown Device Introduction



Scoutbee800 (~M)

Sole Rapid Shutdown Device



Scoutbee1600 (~M)

Dual Rapid Shutdown Device



Beebox-S

Shutdown Initiator (EUR)



**Beetrans** 

Shutdown Initiator (US)

<sup>&</sup>quot;operate" signal after press emerge button on Beebox-H to prevent shock hazard.

# Beetrans/Beebox-S

#### **Shutdown Initiator**





### **Product Features**



- Support two PV strings, suitable for most
- Cascade connection with Max. 10Pcssuitable for large scale roof station
- PLC Communications, no need additional
   communication cable easy to install
- system more secure and reliable



Product Code	Beetrans	Beebox-S
INPUT		
Maximum input Current Per String	15A	20A
Support Strings	2Strings	
Cascade control	YES	N/A
Maximum number of cascading	9	N/A
Maximum System Voltage	1000V / 1500V	
Voltage & Frequency	12Vdc	100~240Vac; 50/60Hz; 1Aac
INSTALLATION SPECIFICATION		
Connector	Compatible with 3/4 Inch EMT 3pcs	Compatible with MC4
Size	220 x 210 x 65 mm	
Weight	880g	
Working Temperature	-20 ~ +60 °C	
Ingress Protection	IP65	
FUNCTION		
Default Internet Access	N/A	LAN+WIFI
Local Rapid Shutdown Function	YE	ES .
Remote Rapid Shutdown Function	n YES	
Open Circuit Voltage	YES	
Automatic Shutdown After Power Fai	lure YE	ES .
DC arc Detection Function	NO	YES
Support Production Models	Scoutbee800/800M, Scoutbee1600/1600M, Scoutbox450	
Data Transmission Frequency	N/A	5 Minutes(PV Status)
STANDARD/ CERTIFICATION		
Regulations	NEC 2017 690.12	
Safety	UL1741,CSA C22.2 No. 330,UL	IEC/EN 62109-1:2010
	1703,ULC1703-01	the Low Voltage Directive(2014/35/E
EMC	FCC Part15 ClassB	EN IEC 61000-6-2:2019
	IEC61000-6-2 / IEC61000-6-3	EN 61000-6-3:2007/+A1:2011
	EN61000-6-2 / EN61000-6-3	the EMC Directive(2014/30/EU)
Certification	CSA	CE