GNE

PV Power Optimizer

Introduction to PV Power Optimizer

Honeybee650 (~PLC)　Honeybee850 (~PLC)　Honeybee800　honeybee1600 (~PLC)

0.2m　1m　0.2m　1m　0.2m　0.3m　1.6m　0.2m　0.3m　1.6m
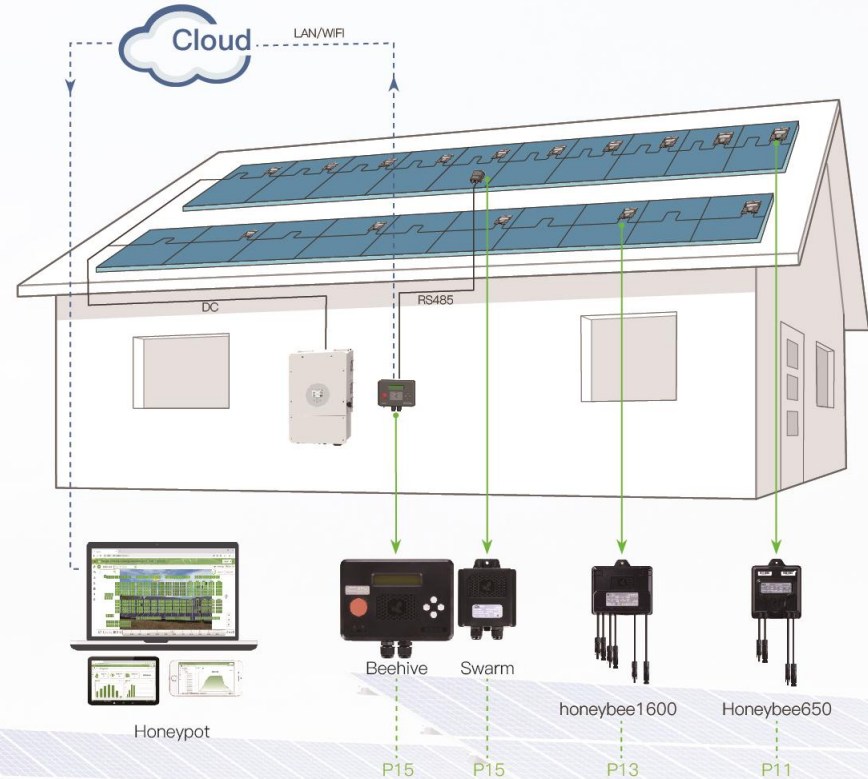
Sole Power Optimizer　　　### Dual Power Optimizer

Swarm　　Beehive　　Beebox-H

Data Acquisition Unit　Data Aggregation Device　Optimizer Initiator

Wireless Optimizer System Diagram

Cloud　LAN/WIFI

DC　RS485

Beehive　Swarm

honeybee1600　Honeybee650

Honeypot

P15　P15　P13　P11

- 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 caused 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.

- Remote shutdown: Entire system can be remotely switch off by APP or web monitoring portal to prevent shock hazard. With data processing device(Beehive) sending "shutdown commands" to each optimizer to cut off power generation.

Honeybee800/1600

Dual Power Optimizer

Product Features

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⚙ Module level Maximum Power Point

Tracking(MPPT), 5~25% more power yield

⚙ Real-time module level monitoring, timely

warning and positioning the problem

⚙ Secure solar system,remote shutdown,

elimination of high voltage danger

⚙ Module addedon, compatible with third party

inverter, available for the new or the existing

solar power station

⚙ 25 years lifespan, perfectly matching solar

modules

	Honeybee800	Honeybee1600
INPUT		
Support Modules	2个	2个
Max. Input Power	450W/450W	800W/800W
Max. Input Voltage	75VDC/75VDC	60VDC/60VDC
Operating Voltage Range	13~75VDC/13~75VDC	13~60VDC/13~60VDC
MPPT Voltage Range	13~70VDC/13~70VDC	13~60VDC/13~60VDC
Isc	15A/15A	23A/23A
Max. Input Current	13A/13A	20A/20A
OUTPUT		
Max Output Power	900W	1600W
Voltage Range	0 ~150VDC	0 ~120VDC
Max. Output Current	13A	20A
Max. Efficiency	99.60%	99.50%
OTHERS		
Max. System Voltage	1500VDC	1500VDC
Operating Temperature Range	−40~+85℃	−40~+85℃
Relative Humidity	0~100%	0~100%
Ingress Protection	IP67	IP68
Protective Class	Ⅱ	Ⅱ
Communication	915M/2.4G	915M/2.4G/PLC
INSTALLATION SPECIFICATION		
Size	129x130x25mm	144x130x26.8mm
Weight	820g	875g
Connector(Input/Output)	Compatible withMC4	Compatible withMC4
STANDARD/ CERTIFICATION		
Safety	IEC/EN 62109−1:2010 the Low Voltage Directive(2014/35/EU)	
EMC	EN 61000−6−1:2007 EN 61000−6−3:2007/+A1:2011 EN 61000−6−2:2005 EN 61000−6−4:2007/+A1:2011 the EMC Directive(2014/30/EU)	
Certification	CE	
COMM	EN 50663: 2017, EN 62479: 2010 EN 301 489−1 V2.2.3, EN 301 489−3 V2.1.1, EN 300 220−2 V3.1.1	