

PV Power Optimizer

Introduction to PV Power Optimizer



Honeybee400 (~PLC)

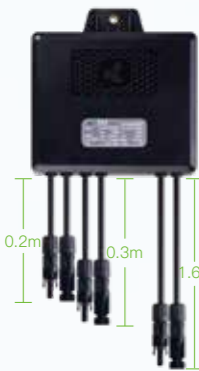


Honeybee650 (~PLC)

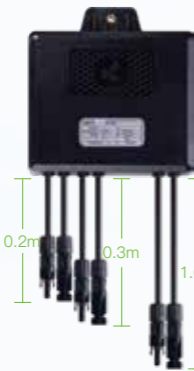


Honeybee850 (~PLC)

-----Sole Power Optimizer-----



Honeybee800



Honeybee1300



honeybee1600 (~PLC)

-----Dual Power Optimizer-----



Swarm
Data Acquisition Unit



Beehive
Data Aggregation Device



Beebox-H
Optimizer Initiator

Wireless 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 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.

Honeybee800/1300/1600

Dual Power Optimizer



Product Features

- ⚙️ 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 add-on, compatible with third party inverter, available for the new or the existing solar power station
- ⚙️ 25 years lifespan, perfectly matching solar modules

Dual Power Optimizer	Honeybee800	Honeybee1300	Honeybee1600
INPUT			
Support Modules	2pcs	2pcs	2pcs
Max. Input Power	450W/450W	650W/650W	800W/800W
Max. Input Voltage	75VDC/75VDC	60VDC/60VDC	60VDC/60VDC
Operating Voltage Range	13~75VDC/13~75VDC	13~60VDC/13~60VDC	13~60VDC/13~60VDC
MPPT Voltage Range	13~70VDC/13~70VDC	13~60VDC/13~60VDC	13~60VDC/13~60VDC
Isc	15A/15A	16A/16A	23A/23A
Max. Input Current	13A/13A	15A/15A	20A/20A
OUTPUT			
Max Output Power	900W	1300W	1600W
Voltage Range	0 ~150VDC	0 ~120VDC	0 ~120VDC
Max. Output Current	13A	15A	20A
Max. Efficiency	99.60%	99.60%	99.50%
OTHERS			
Max. System Voltage	1500VDC	1500VDC	1500VDC
Operating Temperature Range	-40~+85°C	-40~+85°C	-40~+85°C
Relative Humidity	0~100%	0~100%	0~100%
Ingress Protection	IP68	IP68	IP68
Protective Class	II	II	II
Communication	868M/915M/2.4G	868M/915M/2.4G	868M/915M/2.4G/PLC
INSTALLATION SPECIFICATION			
Size	129x130x25mm	129x130x25mm	144x130x26.8mm
Weight	810g	810g	875g
Connector(Input/Output)	Compatible with MC4	Compatible with MC4	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		