

# SolarUnit—

The World's  
First Integrated  
PV System

DAH-SU1K5T



## Integrated System Design

- Modular design of solar system, convenient installation, lower BOS cost
- Each unit operates independently, unrestricted installation angle, more capacity on complex roofs



## High System Generation

- Integrated system solution, perfect match between module and inverter, higher system efficiency
- Module-level MPPT, greatly improve power generation of PV system



## Innovative Module Technology

- 1/3 cut low current module, less heat loss, better low light performance, system generation increased by around 3%
- Global patented Full-Screen module, decrease 6-15% power loss caused by dust accumulation



## Leading Inverter Technology

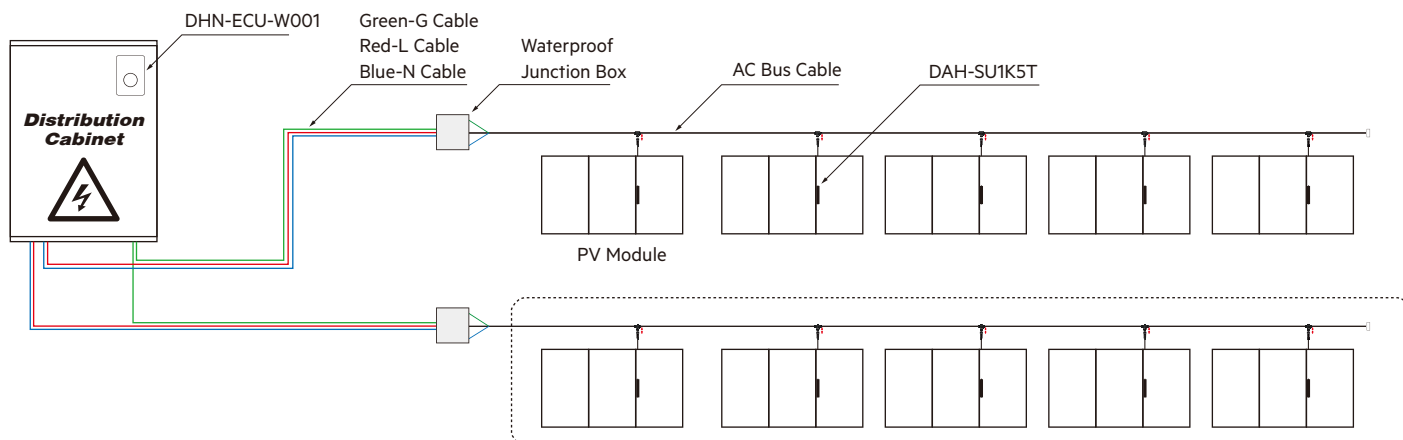
- Innovative contravariant scheme due to perfect match with low current module, peak efficiency above 97.2%
- The latest semiconductor technology, higher conversion efficiency, smaller inverter size, less consumption



## Improved Safety Assurance

- Lower risk of arcing due to lower system current, greatly reduce safety hazards
- Remote monitoring and rapid shutdown through Intelligent cloud platform

# System Application



## Configuration list

### SYSTEM LAYOUT

|   | DAH-SU1K5T-1650W    | DAH-SU1K5T-1665W |
|---|---------------------|------------------|
| Recommended PV Module Power (STC) Range | 550W                | 555W             |
| Max. Units                              | 5units              |                  |
| AC Bus Cable Current-carrying           | 40A/1pcs            |                  |
| AC Bus Connection Type                  | Fast-plug connector |                  |

### UNIT DATA

|  |                              |
|--|------------------------------|
| Max. Output Power                        | 1500VA                       |
| Grid Voltage                             | 230V/220V(180V-270V), L+N+PE |
| Output Frequency Range                   | 50/60Hz±5Hz                  |
| Max Output Current                       | 6.82A                        |
| Power Factor(Default/Adjustable)         | 0.9leading...0.9lagging      |
| Output Current Total Harmonic Distortion | < 3%                         |
| Peak Efficiency                          | 97.48%                       |
| CEC Weighted Efficiency                  | 97.16%                       |
| MPPT Efficiency                          | > 99.95%                     |
| Night Power Consumption                  | 0W                           |

### FEATURES

|                                     |                                    |
|-------------------------------------|------------------------------------|
| Operating Ambient Temperature Range | -40°C ~ +65°C                      |
| Storage Temperature Range           | -40°C ~ +85°C                      |
| Protection                          | IP65                               |
| Cooling                             | Natural convection-No fans         |
| Microinverter Size (H x W x D)      | 412mm×97mm×42.5mm                  |
| Microinverter Weight                | 1.8kg                              |
| System Size (H x W x D)             | 2279×1134×32mm (X3)                |
| System Weight                       | 88.8kg                             |
| Noise                               | < 10db                             |
| Overvoltage class                   | III                                |
| Communication                       | Wifi/PLC                           |
| Operational Platform                | DAH Smart Cloud Platform           |
| System Integration                  | Integration of System and Module   |
| Certificates                        | ABNT NBR 16150,VDE-AR-N 4105: 2018 |
|                                     | IEC/EN 62109-1/-2                  |
|                                     | IEC/EN 61000-6-1/-2/-3/-4          |
|                                     | IEC/EN 61000-3-2/-3                |