

# SolarUnit

The World's First Integrated PV System

DAH-SU800D



Balcony PV



Product Packaging Diagram



### 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 microinverter, higher system efficiency
- Module-level MPPT, greatly improves power generation of PV system



### Innovative Module Technology

- Low current module with 1/3 cut solar cells, less heat loss, better low light performance, system generation increased by around 3%
- Global patented Full-Screen PV Module, decreases 6-15% power loss caused by dust accumulation



### Leading Microinverter Technology

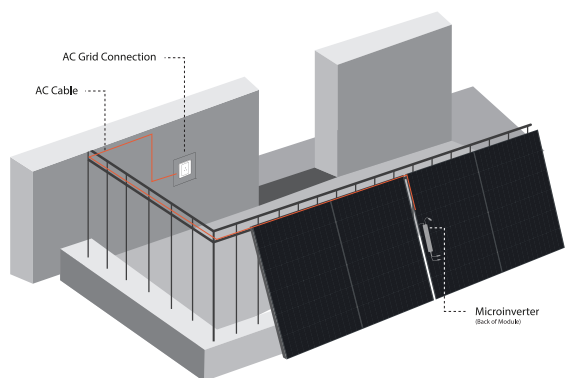
- Innovative contravariant scheme due to perfect match with low current module, peak efficiency above 97.16%
- The latest semiconductor technology, higher conversion efficiency, smaller inverter size, less consumption



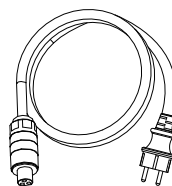
### Improved Safety Assurance

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

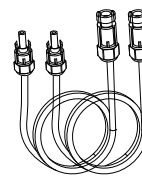
# System Configuration



System



AC Bus



DC Cable  
(optional)

Accessories

## Configuration list

SYSTEM LAYOUT	DAH-SU800D	
Unit	1 Unit	1 Unit
Recommended PV Module Power (STC) Range	420W (PERC)	440W (N-TOPCon)
AC Bus Cable Current-Carrying	8A/1pcs	8A/1pcs
<b>UNIT DATA</b>		
Max. Output Power	800VA	800VA
Grid Voltage	220V/230V (180V-270V), L+N+PE	220V/230V (180V-270V), L+N+PE
Output Frequency Range	50/60Hz±5Hz	50/60Hz±5Hz
Max Output Current	4.0A	4.0A
Power Factor (Default/Adjustable)	0.9 Leading...0.9 Lagging	0.9 Leading...0.9 Lagging
Output Current Total Harmonic Distortion	< 2%	< 2%
Peak Efficiency	97.16%	97.16%
CEC Weighted Efficiency	97.02%	97.02%
MPPT Efficiency	> 99.95%	> 99.95%
Night Power Consumption	0W	0W
<b>FEATURES</b>		
Operating Ambient Temperature Range	-40°C ~ +65°C	-40°C ~ +65°C
Storage Temperature Range	-40°C ~ +85°C	-40°C ~ +85°C
Protection	IP65	IP65
Cooling	Natural Convection-No Fans	Natural Convection-No Fans
Microinverter Size (H x W x D)	372mm×99mm×43mm	372mm×99mm×43mm
Microinverter Weight	1.6kg	1.6kg
System Size (H x W x D)	1766×1132×32mm (X2)	1766×1132×32mm (X2)
System Weight	46.8kg	46.8kg
Noise	<10db	<10db
Communication	Wifi	Wifi
Operational Platform	DAH Smart Cloud Platform	DAH Smart Cloud Platform
System Integration	Integration of System and Module	Integration of System and Module
Warranty	12 years	12 years
Certificates	ABNT NBR 16150,VDE-AR-N 4105: 2018	ABNT NBR 16150,VDE-AR-N 4105: 2018
	TOR Erzeuger Typ A V1.2,NB/T32004-2018	TOR Erzeuger Typ A V1.2,NB/T32004-2018
	IEC/EN 62109-1/-2	IEC/EN 62109-1/-2
	IEC/EN 61000-6-1/-2/-3/-4	IEC/EN 61000-6-1/-2/-3/-4
	IEC/EN 61000-3-2/-3	IEC/EN 61000-3-2/-3
	IEC61215 IEC61730	IEC61215 IEC61730