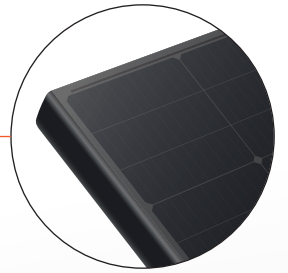
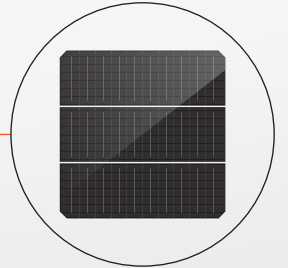


Innovative Design of Micro Inverter



Full-Screen PV Module



1/3 Cut Solar Cells

SolarUnit

The World's
First Integrated
PV System

DAH-SU600D



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

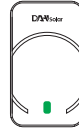
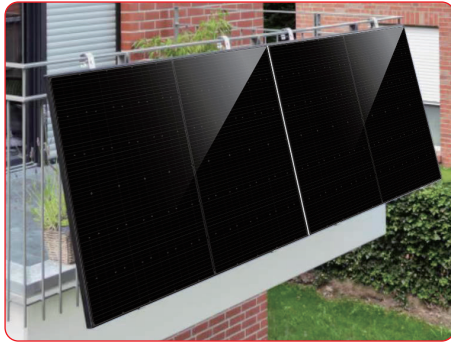
- Innovative contravariant scheme due to perfect match with low current module, peak efficiency above 97.10%
- The latest semiconductor technology, higher conversion efficiency, smaller inverter size, less consumption



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 Configuration



Configuration list

SYSTEM LAYOUT		DAH-SU600D
Recommended PV Module Power (STC) Range	6units	6units
Maximum Power (Pmax/W)	420W (PERC)	440W (N-TOPCon)
AC Bus Cable Current-carrying	28A/1pcs	28A/1pcs
AC Bus Connection Type	Fast-plug connector	Fast-plug connector
UNIT DATA		
Max. Output Power	600VA	600VA
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	3.0A	3.0A
Power Factor(Default/Adjustable)	0.9leading...0.9lagging	0.9leading...0.9lagging
Output Current Total Harmonic Distortion	< 3%	< 3%
Peak Efficiency	97.10%	97.10%
CEC Weighted Efficiency	97.00%	97.00%
MPPT Efficiency	> 99.95%	> 99.95%
Night Power Consumption	0W	0W
FEATURES		
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)	412mm×97mm×42.5mm	412mm×97mm×42.5mm
Microinverter Weight	1.8kg	1.8kg
System Size (H x W x D)	1766×1132×32mm (X2)	1766×1132×32mm (X2)
System Weight	46.8kg	46.8kg
Noise	< 10db	< 10db
Overvoltage class	III	III
Communication	Wifi/PLC	Wifi/PLC
Operational Platform	DAH Smart Cloud Platform	DAH Smart Cloud Platform
System Integration	Integration of System and Module	Integration of System and Module
Certificates	ABNT NBR 16150,VDE-AR-N 4105: 2018	ABNT NBR 16150,VDE-AR-N 4105: 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



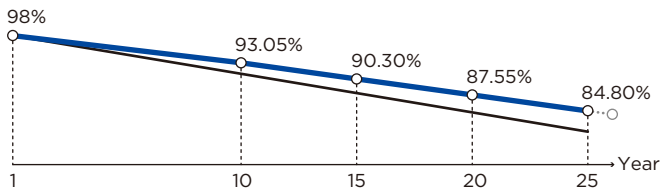
DHT-M56X10/FS(BB)
420W

[Full Screen] P V M o d u l e

No Dust and Dirt on the Surface Increases Power Generation

Quality Guarantee

- 12-year → Material & technology warranty
- 25-year → Linear power output warranty



- DAH Solar Linear power output guarantee
- Standard Linear power output guarantee

Comprehensive Products & System Certificates



IEC 61215 / IEC 61730 / CE / FIDE / INMETRO
ISO 45001: 2018/International standards for occupational health & safety
ISO 14001: 2015/Standards for environmental management system
ISO 9001: 2015/Quality management system



Low current, increase power generation
1/3 design, lower current and lower loss



Increase power generation by 6.15%+
Panel is capable to decrease power generation loss caused by Dust, reduce the hot spot risk.



Curved Surface 128° R Angle
Reduce holding pressure by 75%+
Curved Frame with ergonomic Design, optimized Delivery and Installation Experience.



Revolutionary Assembling Technology
Using excellent frame assembling technology, Strong Adhesion, Durable in Use.



Excellent mechanical load capacity
Certified by Dust-Sand, Salt-Mist, Ammonia etc. weather resistance tests and enhanced mechanical load: wind load (2400 Pa) and snow load (5400 Pa).



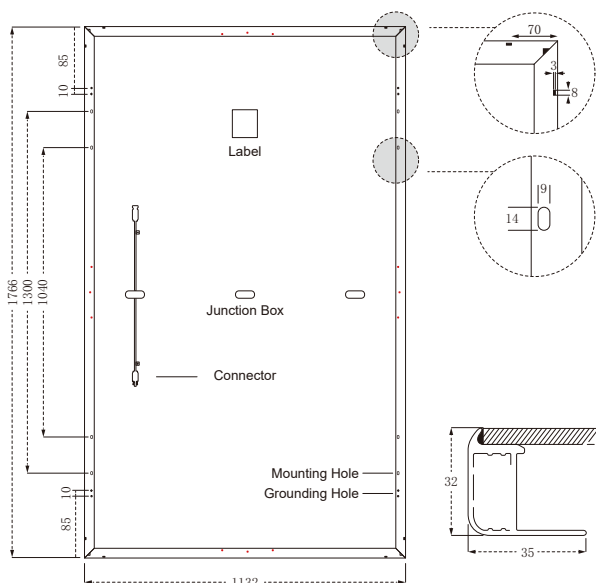
Mechanical Specification

Cable	4.0mm ² , 1200/1200mm in length,
(Including connector)	length can be customized
No.of Cells	168 (6×28)
Glass	3.2mm High Transmission, Antireflection Coating
Junction box	IP68, 3 Bypass Diodes
Connector	MC4 Compatible
Weight	22.5kg
Cells Type	Mono 182×60.7mm
Dimension (L×W×T)	1766×1132×32mm
Packing	34pcs/pallet, 884pcs/40HQ

Operating Parameters

Maximum system voltage	1500V DC
Operating Temperature	-40 ~ +85°C
Maximum series fuse rating	15A
Snow load, frontside/Wind load, backside	5400Pa/2400Pa
Nominal operating cell temperature	45°C±2°C
Application level	Class A

Design



STC — Electrical Characteristics

Module Type	DHT-M56X10/FS(BB)
Maximum Power (Pmax/W)	420
Open-circuit Voltage (Voc/V)	115.4
Maximum Power Voltage (Vmp/V)	97.3
Short-circuit Current (Isc/A)	4.56
Maximum Power Current (Imp/A)	4.32
Module Efficiency (%)	21.01

Power Tolerance: 0~+5W, Temperature Coefficient of Isc: 0.05%/°C, Temperature Coefficient of Voc: -0.31%/°C, Temperature Coefficient of Pmax: -0.35%/°C

Standard Test Environment : Irradiance 1000W/m², Cell temperature 25°C, Spectrum AM1.5

NOCT — Electrical Characteristics

Maximum Power (Pmax/W)	312
Open-circuit Voltage (Voc/V)	108.2
Maximum Power Voltage (Vmp/V)	91.2
Short-circuit Current (Isc/A)	3.68
Maximum Power Current (Imp/A)	3.43

Standard Test Environment : Irradiance 800W/m², Ambient temperature 20°C, Spectrum AM1.5, Wind speed 1m/s

I-V Curve DHT-M56X10/FS(BB)-420W

