



# CREATE A NEW ERA OF SMART ENERGY

Ground and Reservoirs Utility Inverters

Utility-scale  
Solution 225-250kW

**HT**  
(1500V)



Compatible with  
High-power Modules



Power Line  
2.0 Communication



I-V Curve  
Diagnosis



Internal Humidity  
Detection



SVG Function  
Available

# Bifacial PV Modules + Tracking System

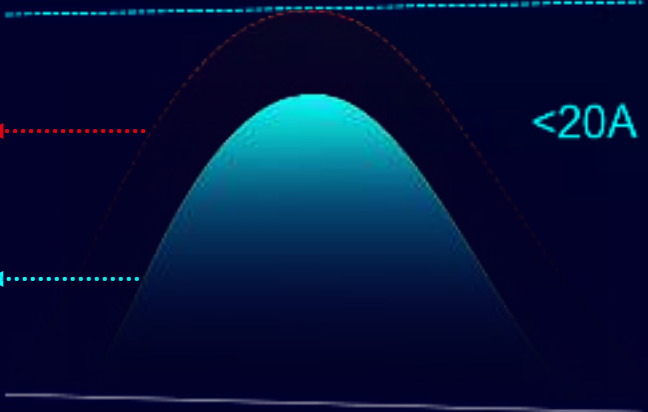


**Modules**  
**20A**

Additional DC current from rear side of bifacial module

Maximum operating current of PV module

Maximum inverter current (30A)



# 12 MPPT

12 MPPTs for complex terrain applications

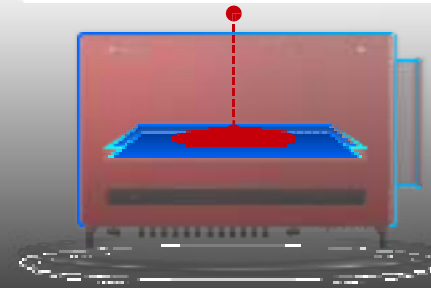


- Occlusion Of Mountains
- Occlusion Of Front And Back PV Array
- Dust Covering
- Occlusion Of Ridges
- Occlusion Of Power Cables

# PID



GoodWe PID repair features



- Internal PID Module
- Autonomous Smart Operation
- Intelligent Detection
- Adjustable Output Voltage

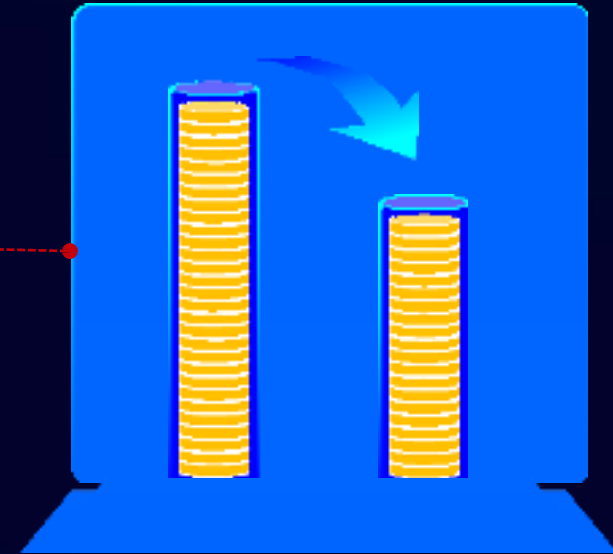
~ Restoration effect

99%

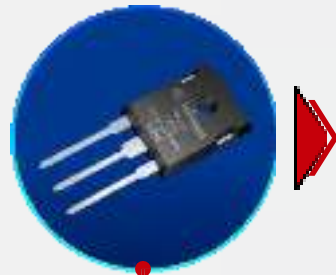
# Reduced OPEX

AC cable supportive of

**300mm<sup>2</sup> AL/CU cable**



# Reactive power support 24h



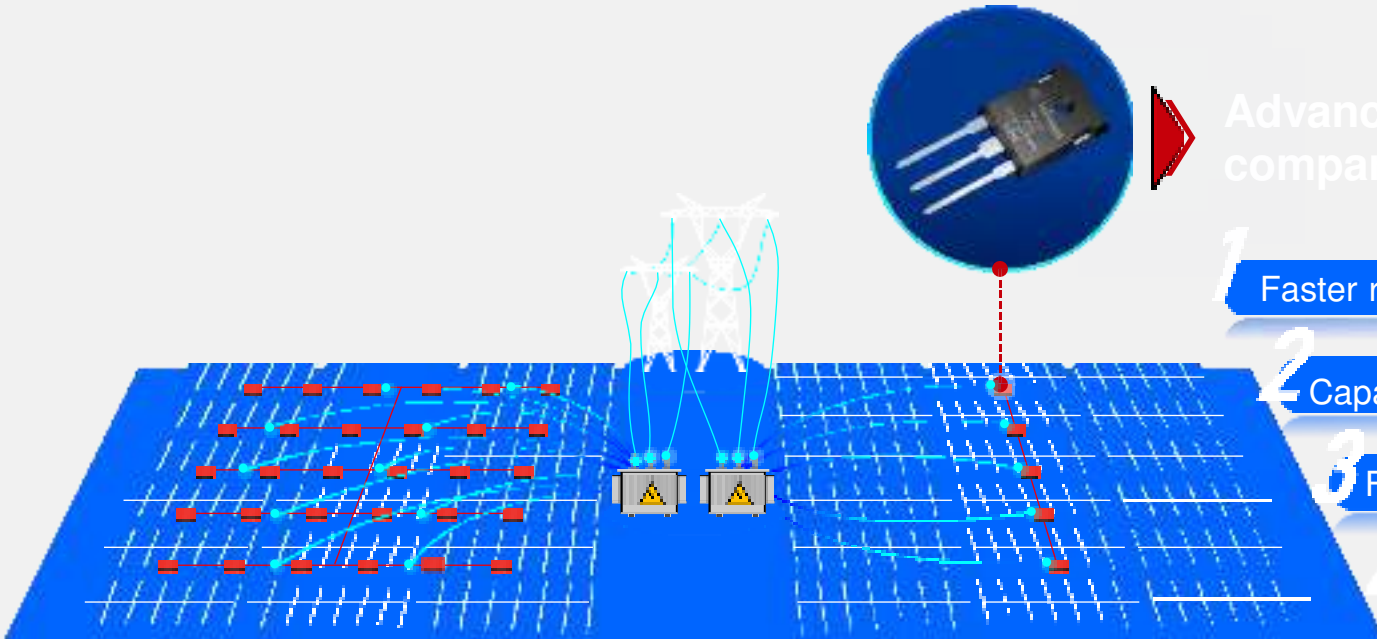
Advanced SVG function based on integrated IGBT compared with traditional SVC using TCR

1 Faster reaction time in **10ms**

2 Capable of generating both leading & lagging reactive power

3 Filtering **50%** harmonic during compensation

4 **Saving cost** for reduced SVG cabinet based on calculation



# Communication via PLC 2.0

RS485 cable free

Highly reliable data transmission

20x speed than RS485

up to 60 inverters connection in a series



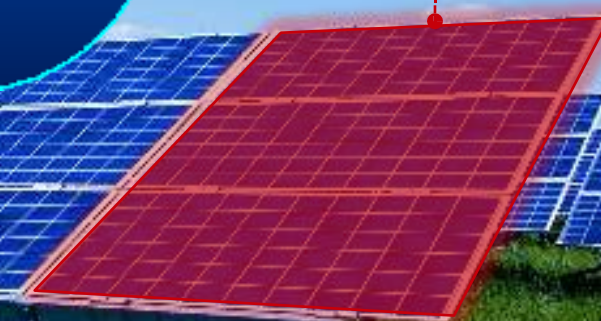
# AFCI 2.0 Removes Fire Hazards Quickly and Precisely

- Arc faults are dangerous in the PV system
- Without AFCI function or missing alarm caused fire accident

**1** Industry-leading 2<sup>nd</sup> Gen AFCI Detection

**2** Complied with UL1699B-2018 & IEC63027

**3** Trip time < **0.5s**

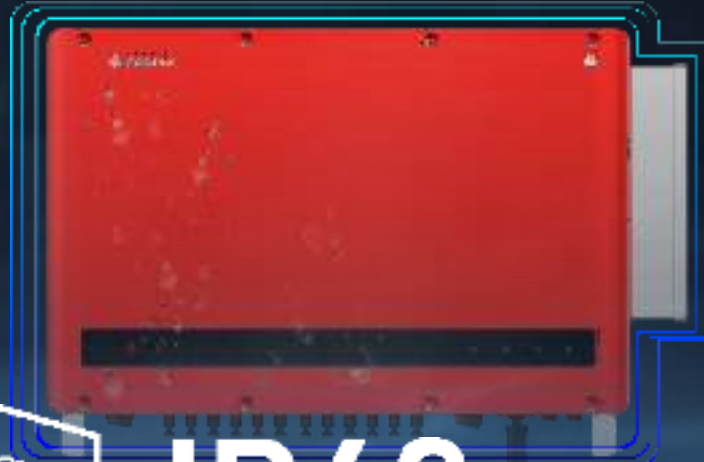




# Internal temperature and humidity detection



# Enhanced Safety



## IP66

Protection for the whole machine



## SPD

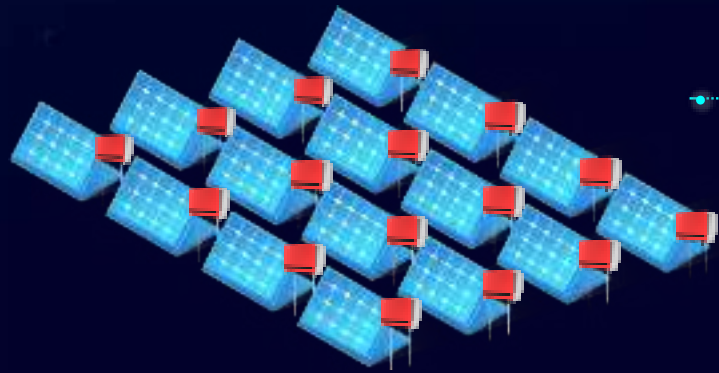
on DC & AC & COM board



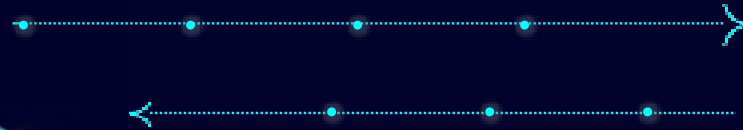
## IP68

Protection for the external cooling fans

# Remote Shutdown



Support up to 40 inverters in series  
Shut down multiple inverters within 0.2s



Emergency Power Off— to turn off all inverters  
rapidly by remote one-button operation



## Maintenance 24h



Providing reactive power (up to 60% of inverter rated power)  
to HV electrical equipment at night



# Smart O&M



## IV Curve Diagnosis

- On-line IV curve scanning on each string
- Locate strings with low performance or faults
- Shut down inverters remotely if needed
- Higher O&M accuracy but lower cost

# Smart O&M



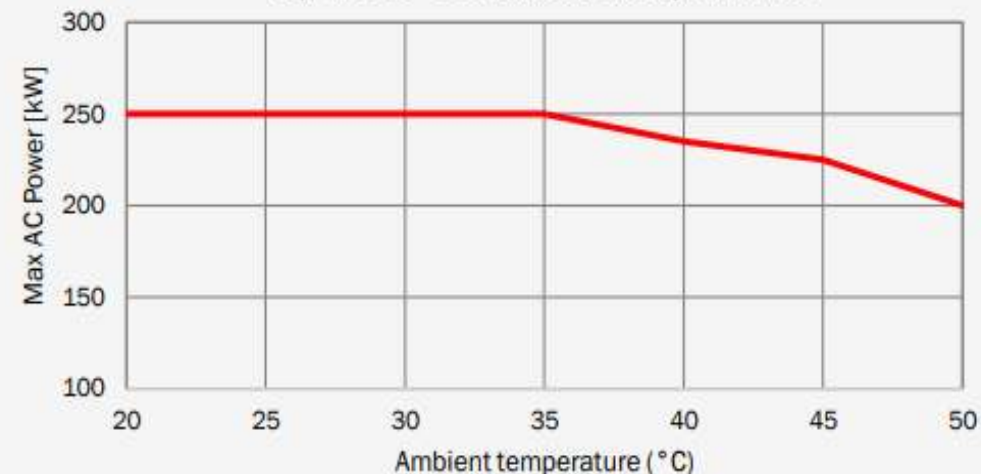
## Fault Recording

The inverter can record specific fault data, so even if it goes off-line, no data loss will occur. Furthermore, the breakpoint resuming function allows continuous data upload to the monitoring system when it reconnects to the server after recovery.

### Parameters:

Model:	GW250K-HT	GW225K-HT
Vmax PV:	1500 V d.c.	
MPPT voltage range:	500-1500V d.c.	
Max. PV current:	12 x 30A d.c.	
Isc PV:	12 x 50A d.c.	
Rated grid voltage:	3/PE-800V a.c.	
AC-grid frequency:	50 Hz	
Max. current:	180.5A a.c.	178.7A a.c.
Rated active power:	250kW	225kW
Max. apparent power:	250kVA	247.5kVA
Power factor range:	Default>0.99, 0,8cap...0,8ind	
Operating temperature range:	-30 °C...+60 °C	
Inverter topology:	Non-isolated	
Protective class:	I	
Ingress protection:	IP66	
Overvoltage category:	II(PV), III(Mains)	

### GW250K-HT full power generation up to 36 °C ambient temperature



# Main Features



## IP66

Protection Degree

## 550V

Starting Voltage

## MPPT

500-1500V

## SPD

Type II

# 12 MPPT

24inputs



## 800V

Output Voltage

## 98,6%

Efficiency

## PLC

Power Line Communication

## Bluetooth

Communication





**MW 40**

Shandong, China

**Dongying - Yellow River, China**



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# THANK YOU FOR YOUR TIME

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