

#### Meet the Microinverter with Record Power Density Designed for Today's 500Wp+ High-performing PV Panels

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# Who We Are

#### Huayu New Energy

A MPLE(Module-level Power Electronics)Specialist

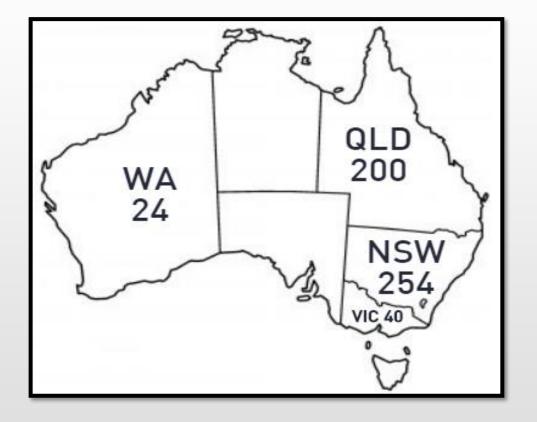




#### Three Key Concerns for Solar Investment



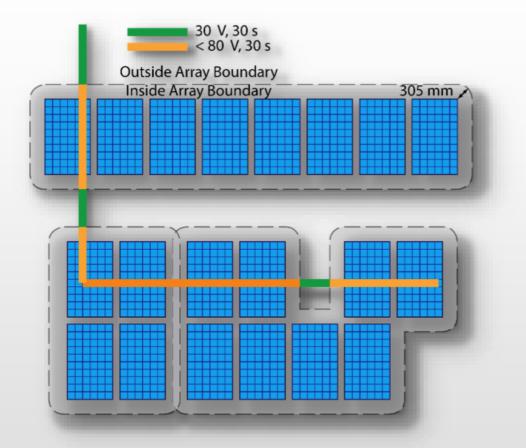




Since 2010, firefighting authorities around Australia have attended 400+ Fires that have been caused by faults in solar power systems.



#### How to Prevent Solar Fire Risks during 25+ Years?



Rule by NEC 2017 in **USA** - inside the Array Boundary: Voltage should not be more than **80 Volts** within 30 seconds of rapid shutdown initiation

#### High Solar Fire Risks: DC Arc Faults





#### How to Get Higher Yields from Shading or Low Light Condition?





#### How to Lower Hardware Cost?





## Which one is the Best "All in One" Solar Solution?

Concerns	Conventional String Inverter	Conventional Microinverter	String Inverter with Optimizer	New Innovation?
Safety	$\star$	$\star \star \star$	$\star \star$	$\star \star \star$
Yields	$\star$	$\star \star \star$	$\star \star$	$\star \star \star$
Cost	$\star \star \star$	$\star$	$\star$	$\star \star \star$

Safety + Higher Yields + Lower Cost



#### **Changing the Microinverter Landscape**



Max. Continuous Output Power: 2050W

Max. DC Input Voltage: 60V

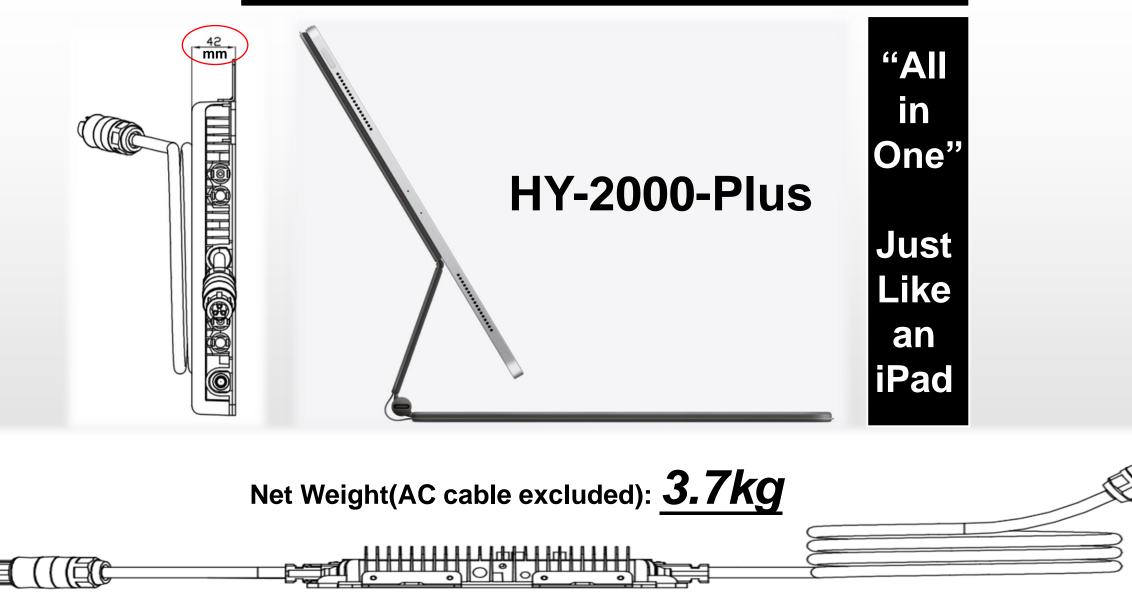
Start-up Voltage: 22Vdc

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Module-level MPPT: 4 MPPT
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Module-level Monitoring: Modular Data



#### **Changing the Microinverter Landscape**





# HY-2000-Plus Power Density: 554.05W/kg

A New World Record of Power Density for Microinverter Industry



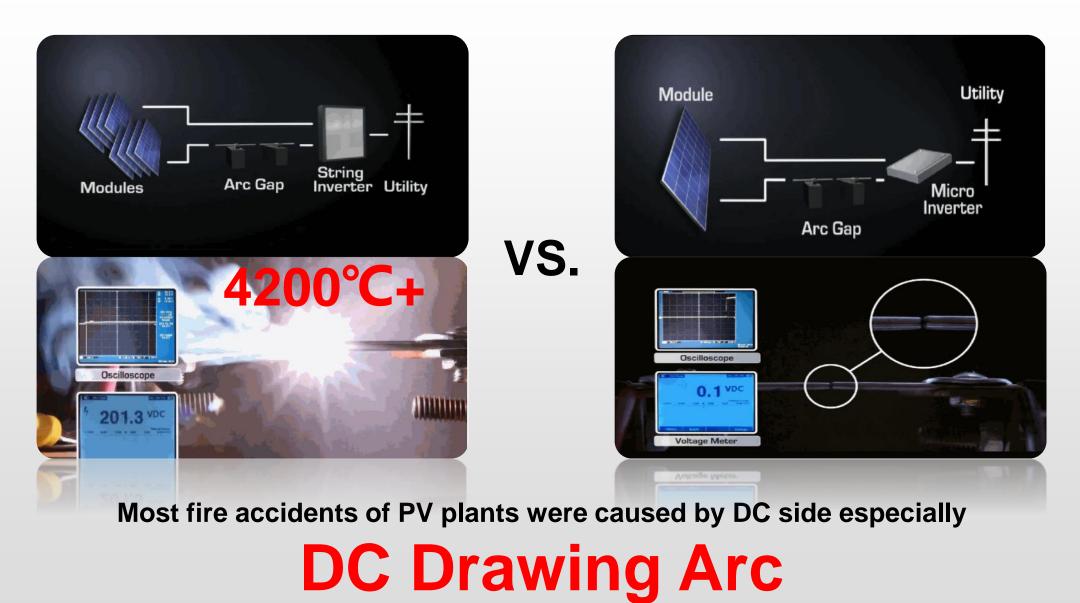




Rated DC Input Voltage: 200vdc+ Enclosure Protection: IP65 Max. DC Input Voltage: 60vdc Enclosure Protection: 1P67

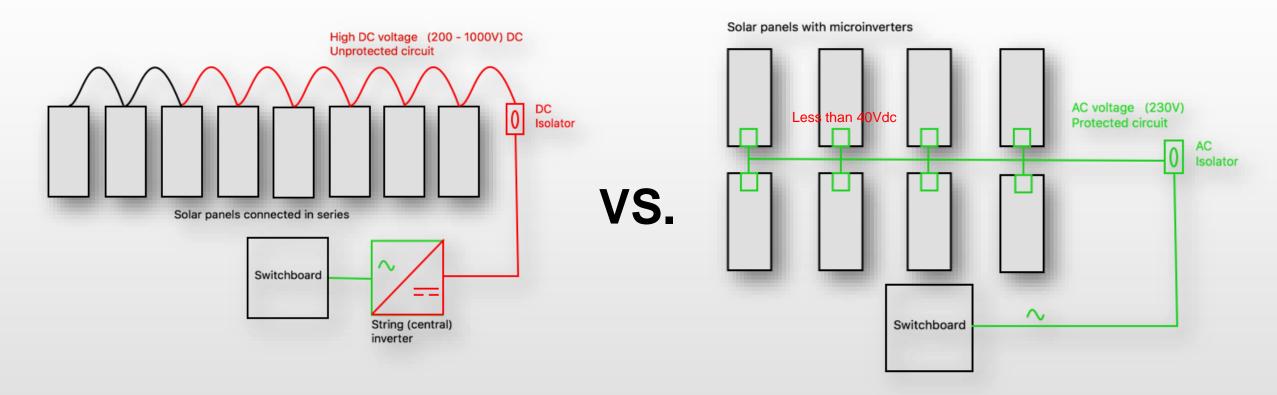












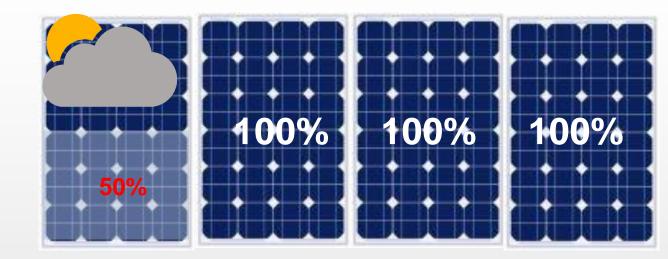
DC arc fault only occurs on a solar system that has unprotected DC voltage circuits above approximately









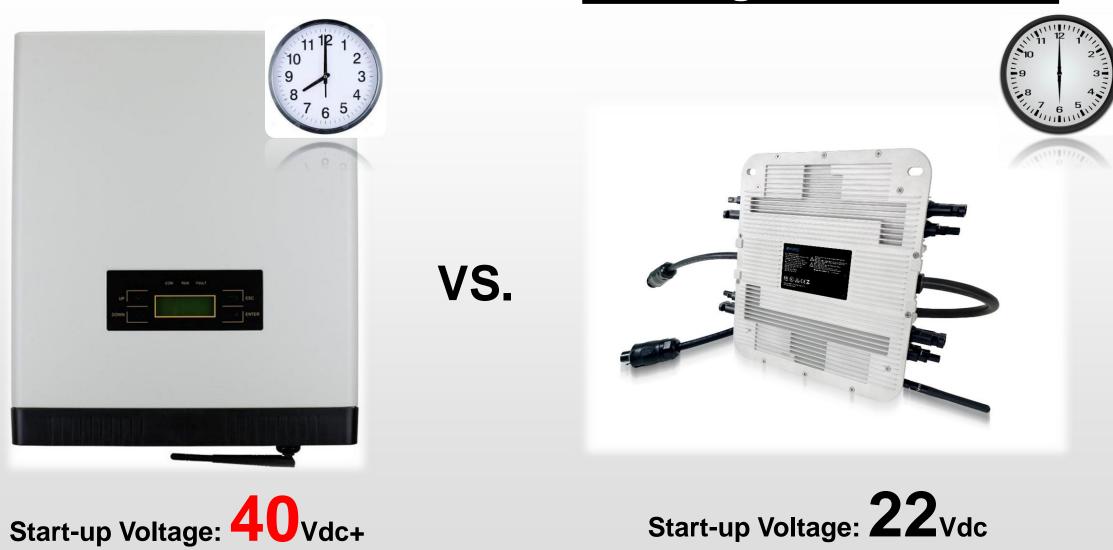


# Module-level MPPT (5-30%+ more yields)

### **String-level MPPT**

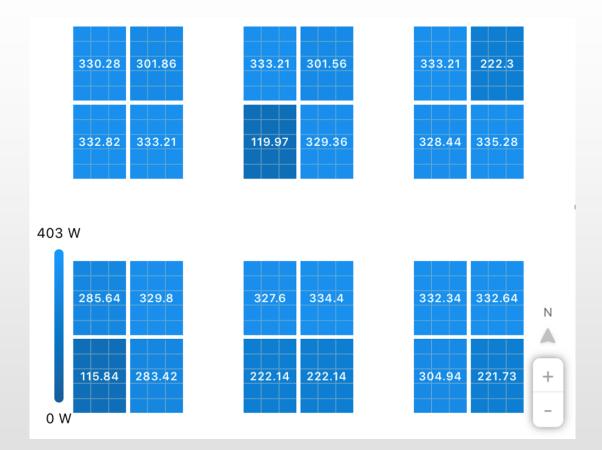


#### **Higher Yields**





#### **Module-level Monitoring**



#### "Module-level" instead of "Plant-level"





#### **Module-level Monitoring**

#### World's First Data Logger(DTU)Integrated Microinverter





#### **More Cost-effective**



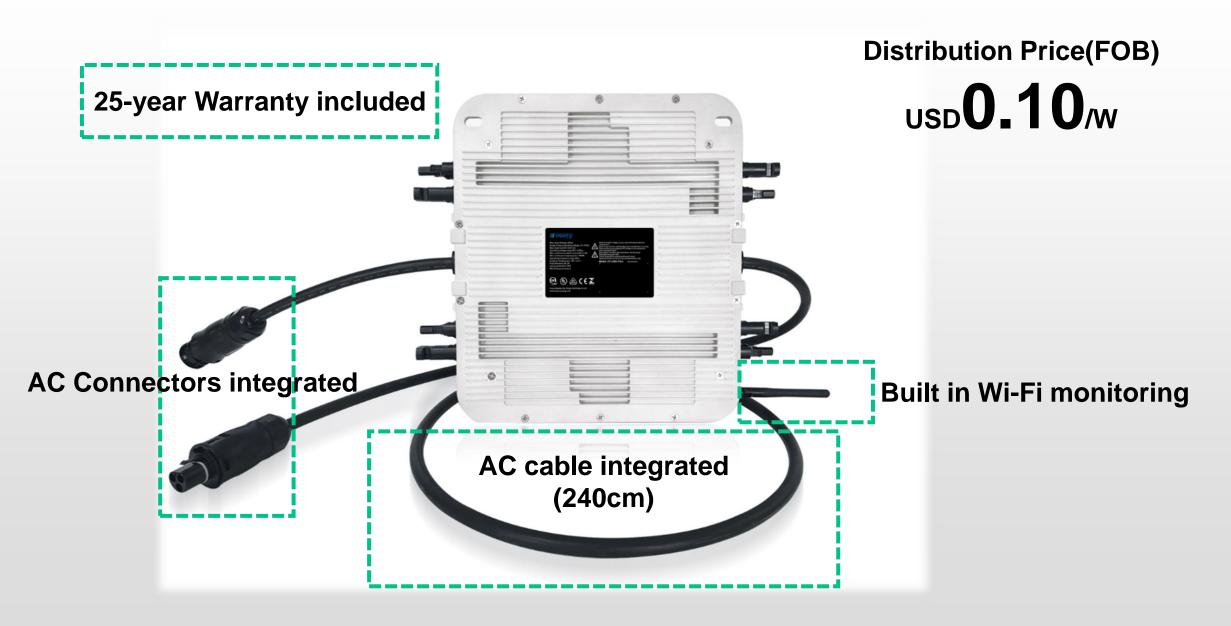
Distribution Price(FOB)

Distribution Price(FOB)

Distribution Price(FOB)

#### **More Cost-effective**







#### **Compatible with 500W+ PV Modules**





#### New Huayu "4 in 1" Family



#### HY-1200/1300-Plus & HY-1600/1800/2000-Plus (4 × 315Wp~580Wp)



#### Mass Production

#### Available for

- Europe
- North America
- South America
- South East Asia

- Australia From July 1<sup>st</sup>, 2020

#### **Target Sales Volume**

150MW July 1<sup>st</sup>, 2020 - June 30<sup>th</sup>, 2021

**300MW** July 1<sup>st</sup>, 2021 - June 30<sup>th</sup>, 2022

600MW July 1<sup>st</sup>, 2022 - June 30<sup>th</sup>, 2023



#### **Bigger Size & Higher Power Density?**





#### Will High Power Density Microinverter Dominate Rooftop Solar Market?

Safer	<b>Higher Yields</b>	Smarter
Max. DC Input Voltage 60Vdc	Module-level MPPT	Module-level Monitoring
IP67	Start-up Voltage 22V	Data Logger Built-in
25-year Warranty	Low Failure Rate < 0.1%	Plug & Play





# **Q & A**

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