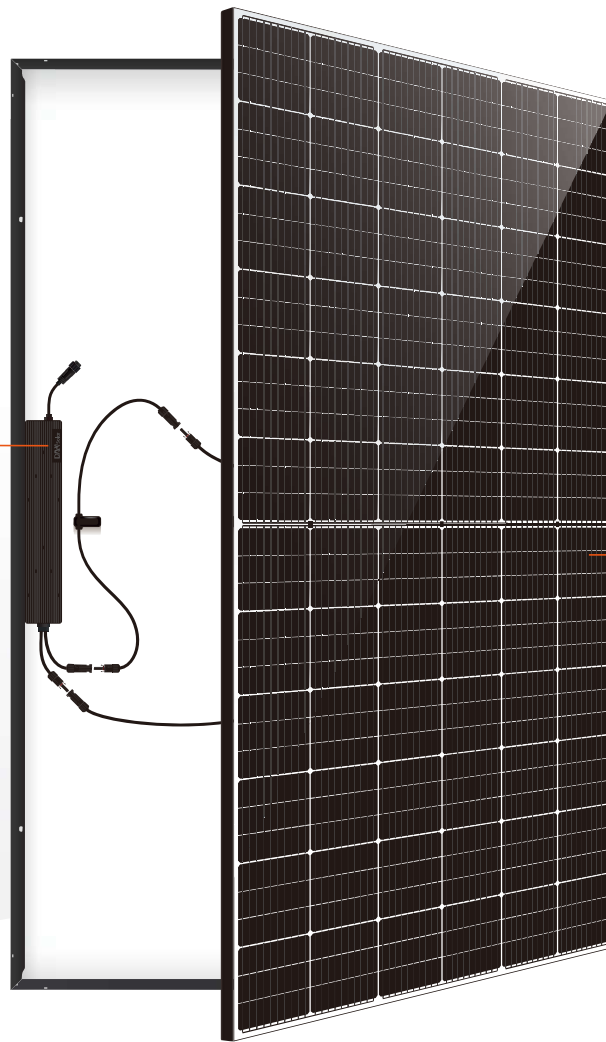




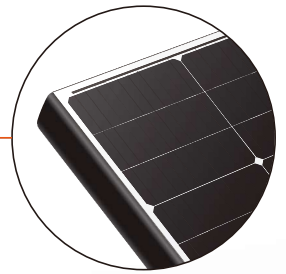
RALOS



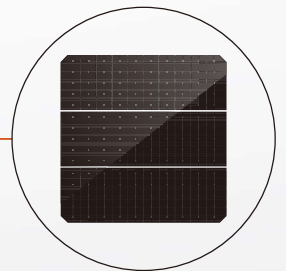
Integrated
PV System
SolarUnit



Innovative Design of Micro Inverter



Full-Screen PV Module



1/3 Cut Solar Cells

SolarUnit—

The World's
First Integrated
PV System

Ralos Gemini



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

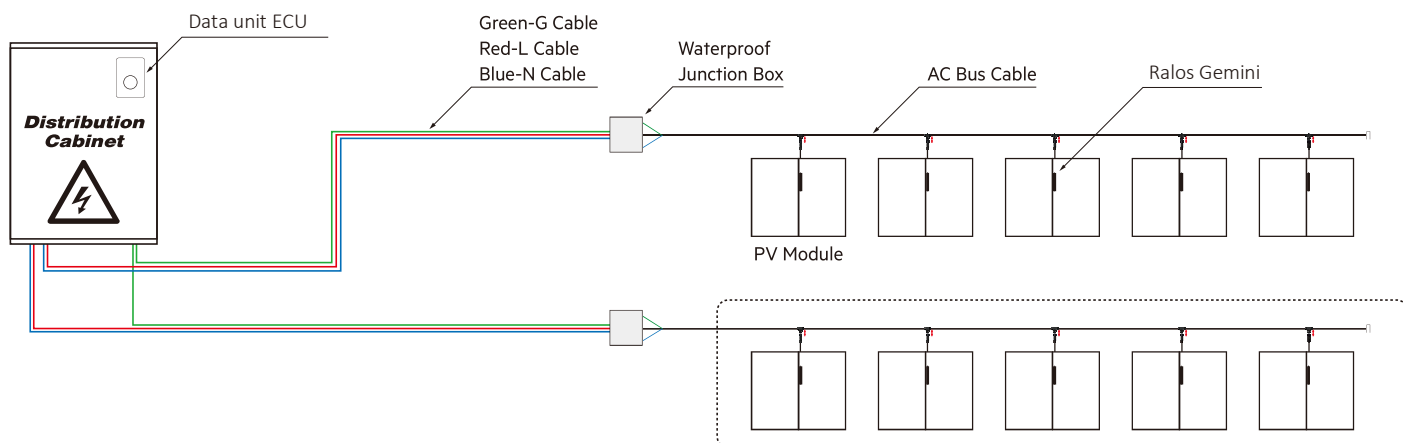
- Innovative contravariant scheme due to perfect match with low current module, peak efficiency above 97.2%
- The latest semiconductor technology, higher conversion efficiency, smaller inverter size, less consumption



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

	Ralos Gemini	
Recommended PV Module Power (STC) Range	460W	
Max. Units	6units	
AC Bus Cable Current-carrying	28A/1pcs	
AC Bus Connection Type	Fast-plug connector	

UNIT DATA

Max. Output Power	920VA	
Grid Voltage	230V/220V(180V-270V), L+N+PE	
Output Frequency Range	50/60Hz±5Hz	
Max Output Current	4.2A	
Power Factor(Default/Adjustable)	0.9leading...0.9lagging	
Output Current Total Harmonic Distortion	< 3%	
Peak Efficiency	97.20%	
CEC Weighted Efficiency	97.05%	
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)	1903×1134×32mm (X2)	
System Weight	49.8kg	
Noise	< 10db	
Overvoltage class	III	
Communication	Wifi/PLC	
Operational Platform	Smart Cloud Platform Integration of	
System Integration	System and Module ABNT NBR	
Certificates	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	