







A Breakthrough in PV Adjustable Rack — "1+1" Adjustable Rack

Model: HY-AR Patent No: ZL2013205449520

New designed "1 + 1" Adjustable Rack install dedicated angle adjustable support(CAS660) on every post and link multiple dedicated angle adjustable supports(CAS660) through multiple universal joint function link rods to realize multi-point supporting, one person can be synchronous regulating 1-2 PV strings. It is the most advanced PV mounting system. The actual data show that HY-AR could increase the power output up to 10%.

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Identical structure design to the fixed Rack with Less Weight and Better Safety

"1+1" Adjustable Rack mechanism design is very similar to traditional fixed bracket structure, which is frame type structure design, the structural strength is same to that of the fixed rack with the same weight. Also it can fully leverage the supply chain of the fixed rack, such as raw materials, processing technology and manufacture equipment, fast throughput and low cost.

Flexible linkage design with low foundation accuracy requirement

"1+1" Adjustable Rack is adopted easy installation design, using a long round hole and universal joint to link parts, greatly improving the flexibility of installation; it can solve the installation problem due to foundation precision and ensure easy angle adjustment.

More reliable against typhoon and avoid accumulated snow

During typhoon season, the "1+1" Adjustable Rack is placed at the horizontal position, which is more reliable against typhoon; During snowing season, the "1+1" Adjustable Rack is placed at 60° angle, which could avoid accumulated snow, give structure better strength and increase sunlight utilization hours, improve solar farm's output.







"1+1" Adjustable Rack

Typical 72-cell c-Si configuration: 1X18 Landscape



HY-AR TECHNICAL SPECIFICATION

HY-AR Product Model Up to 88m² Surface Area Adjusting accuracy ±2.0° 250W-350Wp Installed solar panel type Up to 44 modules Number of modules per string 0°--- 60° Adjusting angle range Maximum working wind speed 25m/s The maximum wind speed 42m/s

The power output increasing Up to 10% Module Arrangement Portrait and Landscape

Life time >25years

Steel parts surface treatment Hot dip galvanized

The number of person to adjust one unit 1 person 1 minute

Time to adjust one set

Man hour of adjusting angle/MWp/once 8 hours for one person Adjusting method Manual or Electric screwdriver

Adjusting tool Handle, Recliner, Electric Screwdriver Adjusting torque <10N.m

Qualifications Foundation Type Strip foundation, Filling pile, Screw Pile

Certification Wind Tunnel Testing

Warranty 5 years;

18.28m



