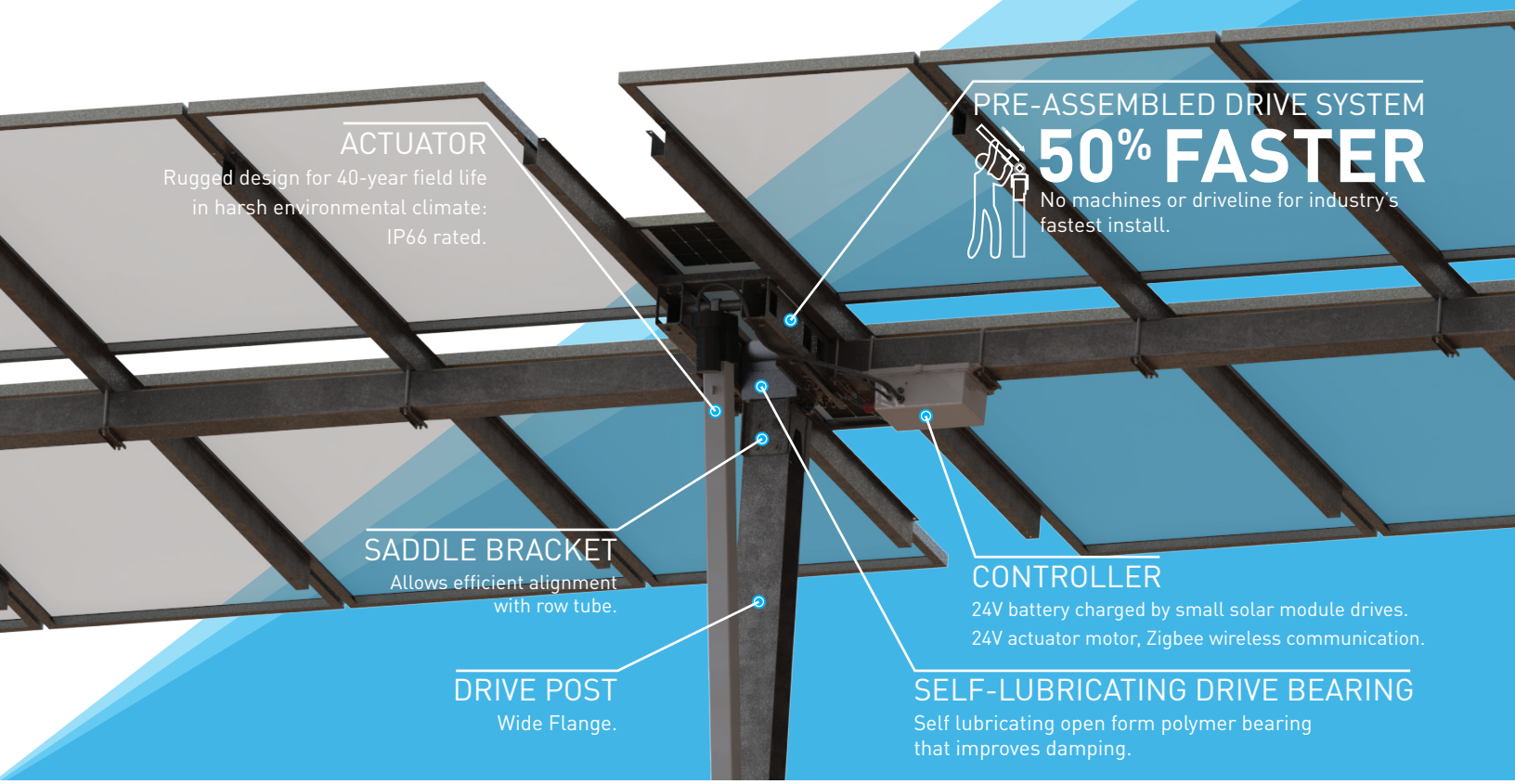
GAMECHANGE SOLAR
REPOWERING THE PLANET

OVER 16 GW SOLD
Global Innovation Leader for Trackers, Fixed Tilt & BOS

TECHNICAL DATASHEET

GENIUS TRACKER™ 2P

WORLD'S HIGHEST POWER PRODUCING & FASTEST INSTALLING 2P SOLAR TRACKER



OWNER BENEFITS

UP TO **1.25%** **MORE POWER PRODUCTION**
RESULTS IN **HIGHER** KWH OUTPUT AND **HIGHER ROE**
based on project specifics

INSTALLER BENEFITS

- **FEWER POST COUNT PER MW** UP TO **55% LESS POSTS** THAN SOME 1P COMPETITORS
- **SHORTER 200 FT [61 M] TRACKERS** **INSTALL EASILY** ON UNDULATING SITES TO REDUCE GRADING
- **FASTEST INSTALLING DRIVE SYSTEM** UTILIZING PRE-ASSEMBLED COMPONENTS

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OWNER BENEFITS

UP TO 1.25% MORE POWER PRODUCTION AND HIGHER ROE
Owners can experience increased cash flow compared to other systems.

WEATHERSMART™
Proprietary algorithm optimizes tilt angle based on weather data to maximize power production. Adds up to 1.25% additional power production.

LOWEST O&M COST
Lowest grass cutting & module washing cost.

ZERO MAINTENANCE DRIVE SYSTEM

INSTALLER BENEFITS

FASTEST INSTALLING SYSTEM
Advanced design innovations & pre-assembled components.

PRE-ASSEMBLED DRIVE ARM
Can be lifted by one worker. No machine required. 50% faster than most competing systems.

PE STAMPED DRAWINGS
Design loads according to local building codes: ASCE 7, NBC, Eurocode, AS1170, IS 875.

PROPRIETARY INTEGRATED HARDWARE™
Proprietary hardware allows for faster structure assembly, module mounting, and reduced O&M cost. Oversized Serrated Flange Nyloc Nut and Oversized Flange Star Bolt with integrated star washer eliminates the need for washers and star washers.

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RESEARCH & DEVELOPMENT CENTER
Brimfield, MA, USA

Modules	**Modules Supported**	Most commercially available modules, including frameless crystalline and thin film
Civil	**Slope Tolerance (N-S)**	7% standard, can go to 10% special order
	Slope Tolerance (E-W)	15%
	Tracker follows slope (Y/N)	Yes
Structural	**Drive Type**	Robust linear actuator stainless steel & aluminum
	Posts per MW	170/MW for normal wind conditions
	Design Wind Load	105 mph [46.9 m/s](Std) / 115 mph [51.4 m/s](Premium 1) / 130 mph [58.12 m/s](Premium 2)
	Snow Load	5 psf [.24 kPa](Std) / 20 psf [.96 kPa](Premium 1) / 40 psf [1.92 kPa](Premium 2) / 60 psf [2.87 kPa](Premium 3)
	Tracking Range (Std)	45°, 52°
	Tracking Range (Premium)	60°
	Post Sections	HDG wide flange steel
	Post Size (Interior) & (Exterior)	W6 or W8 Wide Flange
	Motor Foundation	W6 or W8 Wide Flange
	Standard Embedment	5 - 9 ft. [1.52 - 2.75 m]
	Flood Plain Allowance	Up to 6 ft. [1.83 m]
Design	**Module Configuration**	2 up in portrait for crystalline & First Solar Series 6™, 2 up in portrait for Bifacial, 6 to 8 up landscape for First Solar Series 4™
	Length per Table	Up to 205 ft. [62.48 m] (for example 120 crystaline modules)
	Module Attachment	Bottom mount for framed modules or clamps for glass on glass modules
	Ground Coverage Ratio	0.3 to 0.65
	Rows per Drive	1 drive per tracker(table), distributed drive system
	Powering System	Onboard solar module with battery
	Ground Clearance To Module	18 - 48 in. [45.7 - 121.9 cm] typical
	Min / Max Ground to Top of Post	70 in. [1.78 m] typical + 9 in. [22.86 cm] min. adjustment range
	Backtracking / Anti-shading	Yes, although can be turned off as requested (i.e. for FSLR modules)
	Temperature Range	-20° C (-40° C also available) + 48° C
	Electromagnetic Interference	Compliant with FCC guidelines/ Applicable sections EN 61000
Install	**Specialty Tools Required**	No
	Max Offload for Deliveries	As per customer requirement
Electrical	**Tracking Method**	Time and location based algorithm
	String Design	Compatible with any string size
	Cable Supports	Hole punching per customer requirement for nominal cost
	Linear Actuator Motor	24V DC UL Listed
	Parasitic Loss	0 amps
	Controller Box	Zigbee wireless communications, 24V solar module and battery
	Control System	Master to Node: Zigbee wireless communications Master to SCADA/DAS: Modbus TCP communications
	# of Motors	25/MW for typical conditions, depending on module wattage and loading
	1000V System or 1500V System	Both
	Grounding Method	Tracker structure is part of grounding path per UL 2703
	UL Compliance	UL 2703 / UL 3703
	Ingress Protection	IP66 (NEMA 4 equivalent)
	# Anemometers	1 per 6 MW - 10 MW typical
	Monitoring System	Web portal interface available Compatible with all standard third party monitoring vendors
	Snow & Flood Sensors	Move modules to optimum location for weather events
	Backup Power	Solar module and battery providing integrated backup - 3 days
O&M	**Warranty**	5 year drive & control, 10 year structural standard, 10 /20 also available
Shipping	**Max load**	International - 18.5 to 22.5 metric tons per container USA - 45,000 lbs. [20,411 kg] per truckload, 5,000 lbs. [2,267 kg] maximum bundle size, 2,900 lbs. [1315.4 kg] or other maximum as requested by customers
	Shipping Containers or Flatbeds	Flat beds for structure, dry vans for hardware
	# Trucks or Containers per MWdc	4 typical for trucks, 5 typical for containers
Commissioning	**Backfeed required?**	No, generator for power as alternative

Rev. 3-29-2022