

M18KD™ Gearless Dual-Axis Trackers

Gearless Means Reliable

Mechatron gearless technology means *highest up-time, lowest operations and maintenance costs, and best warranty.*

Dual-axis trackers produce up to *45% more kWh* each year compared with fixed racks.
Highest kWh production means *lowest energy cost.*

Standard warranty	20 years on all components
Performance warranty	99.6% up-time
Tracking type	Gearless dual-axis
Power per tracker	31.5 kW (350 watts per panel)
Panels per tracker	90 72-cell panels 100 60-cell panels
Panel area per tracker	1,830 square Feet
Tilt	Motion From 0° to 90°
Azimuth rotation	Motion From 0° to 360°
Drive type	3 hydraulic drives For azimuth motion 1 hydraulic drive For elevation
Array height	Up to 30 Feet 0 inches
Platform length	57 Feet 0 inches
Platform width	33 Feet 0 inches
Ground coverage ratio	28 to 50%
Operating temperature (C)	-40 C to +85 C
Materials	Hot dip galvanized steel
Tubes and purlins	G90 pre-galvanized steel
Wind (IBC 2012)	Goes horizontal at 40 mph or another wind speed set by software Up to 120 mph continuous wind speed while horizontal 3-second wind burst up to 180 mph while horizontal
Data feed	RS485 MODBUS ETHERNET
Night stow	Yes, configurable
Tracking accuracy	1°
Backtracking	Yes, configurable
Snow load	61 psf, software configurable to elevate platform at vertical when snowfall
Annual power consumption	0.06% of annual production or 1,616kWh/MWdc per year
Land required	4 to 5 acres per MW

M18KD-a-b

W = zigbee wireless network (+\$200)

S = RS485 wired network

1 = single-phase grid

3 = three-phase grid

Gearless dual-axis tracker 1800s.f. platform