

# **M16KD™ Gearless Dual-Axis Trackers for agricultural applications**



<b>Standard warranty</b>	20 years on all components
<b>Performance warranty</b>	99.6% up-time
<b>Tracking type</b>	Gearless / dual-axis / zero-backlash
<b>Light Diffuser</b>	Acrylic plexiglas >91% transmission of full light spectrum
<b>Diffuser ground coverage</b>	100%
<b>Power per tracker</b>	33.6 kW (460W modules)
<b>Panels per tracker</b>	(80) 72-cell panels (72) 144-cut cell panels
<b>Panel area per tracker</b>	1,830 square Feet
<b>Zenith</b>	Motion From 0° to 60°
<b>Azimuth rotation</b>	Motion From 0° to 360°
<b>Drive type</b>	3 hydraulic drives for azimuth motion, 1 hydraulic drive for elevation single motor 3-phase 277/480V 1.5A Wye or 1-phase 120/240V 3A
<b>Array height</b>	Up to 30 Feet 0 inches
<b>Platform length</b>	57 Feet
<b>Platform width</b>	33 Feet
<b>Ground coverage ratio</b>	28 to 50%
<b>Operating temperature (C)</b>	-40 C to +85 C
<b>Materials</b>	Hot dip galvanized steel
<b>Tubes and purlins</b>	G90 pre-galvanized steel
<b>Wind (IBC 2012)</b>	Default setting horizontal at 40 mph, adjusted by software Up to 105 mph continuous wind speed while horizontal 3-second gust winds up to 115 mph while horizontal
<b>Data feed</b>	Wi-Fi, RS485, MODBUS, ETHERNET, Wi-Fi
<b>Night stow</b>	Yes, configurable
<b>Tracking accuracy</b>	1°
<b>Snow load</b>	34.5 psf, software configurable to elevate platform at max tilt when snowfall
<b>Annual power consumption</b>	0.06% of annual production or 1,616kWh/MWdc per year
<b>Land required</b>	4 to 5 acres per MW
<b>Tracker weight</b>	6800 lb (platform 5200 lb, base and control units 1600 lb)

**M16KD-a-b**

W = Wi-Fi wireless network  
 S = RS485 wired network  
 1 = single-phase grid  
 3 = three-phase grid

**Gearless dual-axis tracker 1800s.f. platform**