

M18KD-20™ Gearless dual-Axis Trackers for carports



Standard warranty	20 years on all components
Performance warranty	99.6% up-time
Tracking type	Gearless / dual-axis / zero-backlash
Power per tracker	43.2 kW (600W cut-cell modules)
Panels per tracker	(72) 200-cell panels (90) 72-cell panels (100) 60-cell panels (240) thin film panels
Panel area per tracker	1,830 square Feet
Zenith	Motion From 0° to 20°, tracking
Azimuth rotation	Motion From 0° to 360°
Drive type	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
Array height	Up to 30 Feet 0 inches
Platform length	57 Feet
Platform width	33 Feet
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)	Default setting horizontal at 40 mph, adjusted by software Up to 105 mph continuous wind speed while horizontal 3-second wind burst up to 115 mph while horizontal
Data feed	RS485 MODBUS ETHERNET
Night stow	Yes, configurable
Tracking accuracy	1°
Backtracking	Yes, configurable
Snow load	34.5 psf, software configurable to elevate platform at max tilt 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-20-a-b – 7,8 or 9 columns

W = Wi-Fi wireless network

S = RS485 wired network

1 = single-phase grid

3 = three-phase grid

Gearless dual-axis tracker 1800s.f. platform