

FARAN

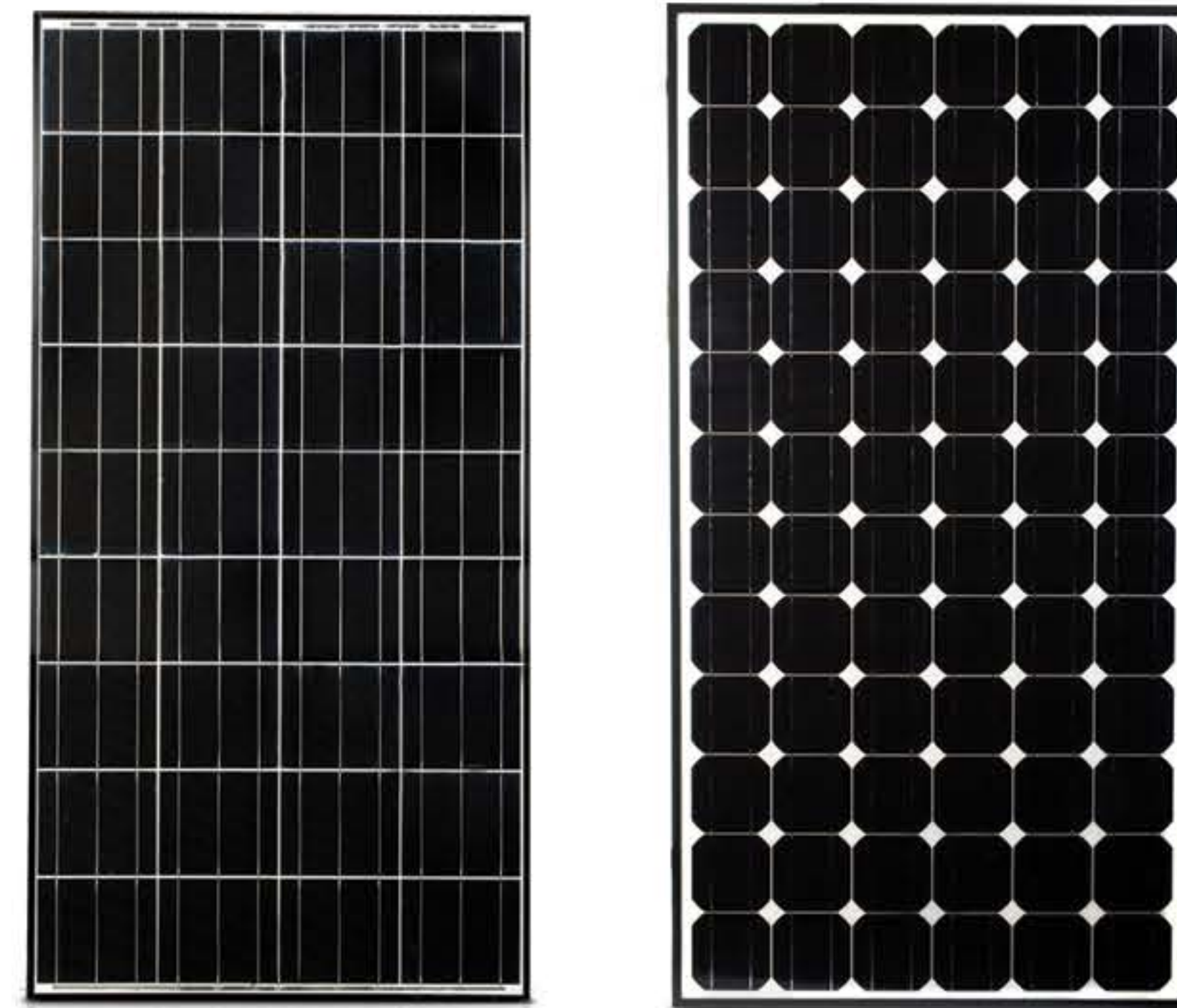
s u s t a i n i t ...



Faran PV

Solar Panel Photovoltaic

Mono crystal Module
Poly crystal Module
95 w ~ 325 w



Brand	Model	Pmax watt	Vmp V	Imp A	Voc V	Isc A	Dimension mm		Area m ²	Standards /Warranty	Weight	Storage Temperature
							L	W				
FARAN Solar One	1 195 Poly	195	26.8	7.28	32.70	8.06	1494	1000	1.49	IEC 61215 / Performance guarantee: up to 25 years (80% power output • ISO 9001 quality standards and ISO 14001 environmental standards • OHSAS 18001 occupational health and safety standards • IEC 61215 and IEC 61730 Class A certifications • UL 1703 certification • Conformity to CE	16kg (35.2 lbs)	-40 to 85 °C
	2 200 Poly	200	26.9	7.44	32.80	8.24						
	3 205 Poly	205	27.0	7.60	32.90	8.35						
	4 210 Poly	210	27.1	7.75	33.00	8.48						
	5 215 Poly	215	27.2	7.91	33.10	8.54						
	6 220 Poly	220	27.3	8.06	33.20	8.68						
	7 225 Poly	225	29.9	7.53	36.70	8.18	1652	1000	1.65		21kg (46.2 lbs)	-40 to 85 °C
	8 230 Poly	230	30.0	7.67	36.80	8.34						
	9 235 Poly	235	30.1	7.81	36.80	8.44						
	10 240 Poly	240	30.2	7.95	37.00	8.54						
	11 245 Poly	245	30.3	8.08	37.10	8.64						
	12 250 Poly	250	30.4	8.22	37.20	8.74						
	13 270Poly	270	36.0	7.50	44.00	8.20	1966	1000	1.96		26kg (57.2 lbs)	-40 to 85 °C
	14 275 Poly	275	36.1	7.62	44.10	8.35						
	15 280 Poly	280	36.1	7.76	44.30	8.40						
	16 285 Poly	285	36.2	7.87	44.50	8.45						
	17 290 Poly	290	36.3	7.99	44.70	8.50						
	18 295 Poly	295	36.4	8.11	44.90	8.55						
	19 170 Mono	170	35.0	4.86	43.80	5.36	1580	808	1.27		13kg (28.6 lbs)	-40 to 85 °C
	20 175 Mono	175	35.2	4.98	44.00	5.48						
	21 180 Mono	180	35.4	5.11	44.30	5.59						
	22 185 Mono	185	35.6	5.21	44.60	5.68						
	23 190 Mono	190	35.8	5.33	44.80	5.78						
	24 195 Mono	195	36.0	5.42	45.00	5.85						

Brand	Model	Pmax watt	Vmp V	Imp A	Voc V	Isc A	Dimension mm		Area m ²	Standards /Warranty	Weight KG	Storage Temperature °C
							L	W				
FARAN Solar	1 FEM 190/Mono	190	36.66	5.18	45.38	5.58	1580	808	1.27	10-year limited product warranty. Limited performance warranty: 10 years at 90% of the minimal rated power output, 25 years at 80% of the minimal rated power output	15.5 KG	-40 to 85 °C
	2 FEM 200/Mono	200	37.26	5.37	45.62	5.66						
	3 FEM 205/Mono	205	37.56	5.46	45.74	5.69						
	4 FEM 215/Mono	215	38.16	5.63	46.10	5.79	1650	991	1.63		19.5 KG	-40 to 85 °C
	5 FEM 235/Mono	235	30.36	7.74	37.19	8.49						
	6 FEM 240/Mono	240	30.56	7.85	37.49	8.54						
	7 FEM 250/Mono	250	30.96	8.07	37.92	8.62						
	8 FEM 260/Mono	260	31.36	8.29	38.28	8.67						
	9 FEM 265/Mono	265	31.56	8.40	38.46	8.70						
	10 FEM 285/Mono	285	36.63	7.78	45.42	8.56	1956	991	1.93		22.5 KG	-40 to 85 °C
	11 FEM 305/Mono	305	37.52	8.13	46.28	8.73						
	12 FEM 320/Mono	320	38.56	8.28	46.76	8.88						
	13 FEM 325/Mono	325	39.02	8.33	46.91	8.93	1650	991	1.63		19.5 KG	-40 to 85 °C
	14 FEP 225/Poly	225	29.12	7.73	37.00	8.23						
	15 FEP 230/Poly	230	29.32	7.84	37.17	8.31						
	16 FEP 245/Poly	245	29.72	8.19	37.67	8.57						
	17 FEP 250/Poly	250	30.12	8.30	37.85	8.65						
	18 FEP 270/Poly	270	36.00	7.50	44.00	8.20						
	19 FEP 275/Poly	275	36.52	7.53	44.20	8.25	1956	991	1.93		22.5 KG	-40 to 85 °C
	20 FEP 280/Poly	280	36.75	7.62	44.20	8.32						
	21 FEP 285/Poly	285	37.01	7.70	44.40	8.38						
	22 FEP 290/Poly	290	37.47	7.74	44.40	8.42						
	23 FEP 295/Poly	295	36.6	7.80	44.60	8.48						
Lorentz	1 LA100-12s High-efficiency	100	17.7	5.7	21.4	6.1	1037	527	0.54	IEC 61215 and CE / Warranty: 2 years. Performance guarantee: up to 20 years (80% power output)	7.4 KG	-25 to 75 °C
	2 LA95-12s High-efficiency	95	17.6	5.4	21.3	5.8					7.4 KG	

تجدید امور بن بست خورشید



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ETATRACK Active Single-axis Tracking Systems for PV Modules



ETATRACK active tracking systems provide up to a 40 % higher yield from your PV modules. ETATRACK systems follow the sun through the day, this extends the time that useful power levels are delivered and maximises the peak power. LORENTZ have been designing, manufacturing and selling tracking systems since 1998 with thousands of systems installed across the world.

Benefits

- . Single axis design for cost effectiveness, reliability and efficiency
- . Simple design for fast, failure-free installation
- . High reliability and excellent serviceability lowers cost of ownership
- . Long life expectancy in line with PV modules for predictable financial planning
- . Short Return of Investment (ROI) cycle
- . Very attractive business case against fixed and dual axis PV installations

Features

- . Single axis, 90° tracking angle East-West
- . Robust hot Zinc-coated steel frame
- . For ground installation on concrete foundation
- . Stainless steel module fixings
- . Maintenance-free DC linear drive
- . Sensorless control
- . Self-powered with very low energy consumption
- . Control options to synchronise multiple units
- . Designed for high wind speeds according to German and European standards



tracking system	ETATRACK active 2500-A-30	ETATRACK active 2000-A	ETATRACK active 1500-A
PV module surface	26 m ²	20.5 m ²	16.5 m ²
max. power installed	c. 4.6 kWp	c. 3.6 kWp	c. 2.9 kWp
second axis	fixed, 30°, other angles on request	manually adjustable, stepwise 0–45°	manually adjustable, stepwise 0–45°



Pictures may differ from actual product

tracking system	ETATRACK active 600	ETATRACK active 1000-30	ETATRACK active H1500
PV module surface	6.0 m ²	10.5 m ²	16.5 m ²
max. power installed	c. 1.0 kWp	c. 1.8 kWp	c. 2.9 kWp
second axis	manually adjustable, stepwise 0–50°	fixed, 30°, other angles on request	fixed, 0°

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