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SOLARRIDE

SolarRide Transportation Kits: Solar Power Optimized for Transportation

A SolarRide Kit consists of solar modules, an optimized charge controller, and cables. The solar module is a FLEX Series module is a CIGS-based flexible thin-film solar module that is thin, flexible, shatterproof and provides one of the highest efficiencies on the market today, at up to 17%.. The kits include a range of sizes and powers of FLEX modules to accomodate various cab sizes and help you acheive your goals. FLEX modules provide the following benefits for transportation:

- Adhere directly to the roof with no roof penetrations, eliminating the risk of leaks
- Thin modules offer superior wind resistance
- Shatterproof and durable
- Low installed weight at less than 2.0 kg/m2 (<0.5 lb/ft2)
- Bypass diodes reduce PV system shading losses
- Record efficiency levels

SOLARRIDE KITS*

	75W Trickle Charger	150W Lift-Gate	180W APU	380W APU	500W APU
Modules	1 FLEX-03N 1.7m	2 FLEX-03N 1.7m	1 FLEX-03W 1m	2 FLEX-03W 1m	1 FLEX-03W 2.6m
Charge Controller	8 Amp	10 Amp	15 Amp	20 Amp	20 Amp 60 Amp
Cables	As Required				

**Custom solutions available, Average Nominal Power shown*

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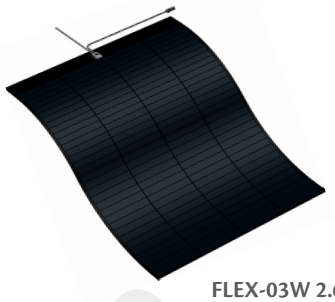
SOLARIDE KIT COMPONENT SPECIFICATIONS

FLEX-03N 1.7m

FLEX-03W 1m



FLEX-03W 2.6m

SOLAR MODULE ELECTRICAL PERFORMANCE AT STC[1]

			FLEX-03N 1.7m	FLEX-03W 1m	FLEX-03W 2.6m
Aperature Efficiency	η	[%]	14.3 – 17.3%	14.7 – 17.4%	15.0 – 17.3%
Nominal Power	P_{MPP}	[W]	70 – 85W	160 –190W	460 – 530W
Power Output Tolerance			+5/-0	+10/-0	+10/-0
Maximum Power Voltage	V_{MPP}	[V]	18.1 – 20.9	20.6 – 23.3	58.7 – 65.1W
Maximum Power Current	I_{MPP}	[A]	3.88 – 4.07	7.82 – 8.16	7.87 – 8.15
Open Circuit Voltage	V_{OC}	[V]	23.2 – 25.5	26.1 – 28.4	74.1 – 79.5
Short Circuit Current	I_{SC}	[A]	4.67 – 4.47	9.28 – 8.93	9.23 – 8.94

[1]Standard Test Conditions (STC): 1000 W/m², 25°C cell temperature, AM 1.5 spectrum

SOLAR MODULE PHYSICAL AND MECHANICAL SPECIFICATIONS

	FLEX-03N 1.7m	FLEX-03W 1m	FLEX-03W 2.6m
Length	1710 mm (67.3 in, 5ft 7.3in)	1010 mm (39.8 in, 3ft 3.8in)	2585 mm (101.8 in, 8'ft 5.8in)
Width	348 mm (13.7 in, 1ft 1.7in)	1293 mm (50.9 in, 4ft 2.9in)	1293 mm (50.9 in, 4ft 2.9in)
Thickness, Maximum at J–Box*, Module	17 mm (0.7in) 2.5 mm (0.1in)		
Weight (Module with adhesive)	1.3 kg (2.9 lb)	2.5 kg (5.6 lb)	6.6 kg (14.6 lb)
Junction Box Type	IP68		
Cable Connections	Helios H4 (S&F)		
Cell Type	Copper Indium Gallium Diselenide (CIGS)		

CHARGE CONTROLLER SPECIFICATIONS

		8 Amp		10 Amp		15 Amp		20 Amp		60 Amp			
Battery Voltage	[V]	12V	24V	12V	24V	12V	24V	12V	24V	12V	24V	36V	48V
Maximum Solar Power	[W]	105W	210W	150W	300W	200W	400W	250W	500W	800W	1600W	2400W	3200W
Maximum Charging Current	[A]	8		10		15		20		60			

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