

Solawatt

Portable folding module kits

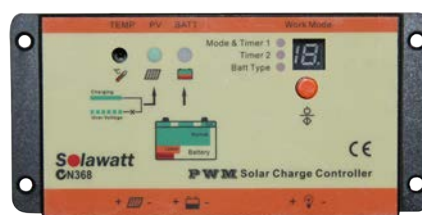


Solawatt folding module kits are designed to provide portable 12 volt power wherever you need it.

Available in 4 sizes from 80W to 200W

Features:

- Padded, moulded carry bag
- Heavy duty carry handle, hinges and clasps
- Sturdy adjustable legs
- Weatherproof solar charge controller with LED indicator
- 5m cable with heavy duty Anderson connectors between module-regulator & regulator-battery clamps
- All cabled up ready to use
- 2 year warranty



These kits are the ideal solution for 4WD, camping, caravanning, boating and recreational activities wherever power is required for lights, small TV, camping fridge, pump or other small appliances.

Model	SW-FM80W	SW-FM120W	SW-FM160W	SW-FM200W
Nominal Peak Power	80W (2 x 40W)	120W (2 x 60W)	160W (2 x 80W)	200W (2 x 100W)
Power tolerance	+/-3%			
Cell type	Monocrystalline			
Open circuit voltage (Voc)	21.6V			
Voltage at maximum power (Vmp)	17.6V	17.5V	17.5V	17.5V
Short circuit current (Isc)	4.9A	7.4A	9.88A	12.34A
Current at maximum power (Imp)	4.54A	6.86A	9.14A	11.42A
Maximum system voltage	600VDC			
NOCT (Nominal Operating Cell Temperature)	45°C +/-2°C			
Operating temperature - module	-40°C to +85°C			
Operating temperature – charge	-35°C to +55°C			
Module folded size (mm) in carry bag	505x550x60	505x825x80	505x1005x70	670x1005x70
Module open size (mm)	1014x550x30	1014x825x35	1014x1005x35	1344x1005x35
Module net weight (kg)	9.2	13.0	15.2	19.0
Module gross weight (kg)	11.0	16.0	19.4	23.2
Solar charge controller	PWM 12V 10A; IP66 rated		PWM 12V 20A; IP66 rated	

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Output Guide

Model	SW-FM80W	SW-FM120W	SW-FM160W	SW-FM200W
Current at maximum power (Imp)	4.54A	6.86A	9.14A	11.42A
Estimated daily module output	17Ah	25Ah	34Ah	42Ah

*Calculated at 5 peak sun hours and 25% system losses. Output will vary depending on solar radiation, module orientation and tilt angle.



Application Guide

12V Fridge Guide

BRAND	Internal Capacity	Daily Power Consumption	Combined climate results over 48 hours		Solawatt Solution
		@ 17°C ambient / @ 37°C ambient	@ 28°C ambient	Ah/day	
ARB*	47L	8.52Ah / 38.97Ah	0.99A/hr	24	120W
BUSHMAN*	42.5L	5.73Ah / 31.64Ah	0.78A/hr	19	120W
ENGEL*	41L	5.2Ah / 45.25Ah	1.05A/hr	25	120W
EXPLORER*	56L	14.16Ah / 61.25Ah	1.58A/hr	38	200W
EVAKOOL*	45L	3.77Ah / 31.1Ah	0.73A/hr	18	120W
WAECO*	46.5L	3.95Ah / 38.33Ah	0.88A/hr	21	120W

*Test results from 4WD fridge comparison, Issue 136 of "Australian 4WD Action" magazine, 2009, load varies with temperature

Appliance Guide

Appliance	Watts	Amps @ 12V	Hours/day	Ah/day	Solawatt Solution
Lights	2 x 15W	2.5	4	10	80W
TV	60W	5	4	20	120W
Water Pump	60W	5	0.5	2.5	80W
CD/DVD Player	35W	3	4	12	80W
Laptop	60W	5	2	10	80W
Mobile Phone	5W	0.5	5	2.5	80W
Lights + TV + Laptop				40	200W
Lights + TV + water pump				32.5	160W

*Figures are indicative only. Check your appliance specifications before confirming design.

