



## Sunmodule

### SW 50 mono/R5A

With Sunmodule SW 50 mono/R5A, SolarWorld presents a solar energy module, which is ideally suitable for the requirements of smaller applications to be performed off-grid. The highest demands with regard to manufacturing quality and the many years of SolarWorld's practical experience guarantee the solar power module's long life span. The module is capable of reliably supplying power even under the most difficult climatic conditions.

Typical areas of application for the module are anywhere, where electric power is needed quickly and flexibly and supply from a power grid is not available.

Because of its compact dimensions and the solid workmanship of its aluminium frame, it can be mounted easily and flexibly. The water repellent junction box allows the modules to be connected easily and safely and facilitates a simple and quick installation process.



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## SW 50 mono/R5A

### Performance under standard test conditions

		SW 50
Maximum power	$P_{max}$	50 Wp
Open circuit voltage	$V_{oc}$	21.0 V
Maximum power point voltage	$V_{mpp}$	16.2 V
Short circuit current	$I_{sc}$	3.40 A
Maximum power point current	$I_{mpp}$	3.10 A

### Performance at 800 W/m<sup>2</sup>, NOCT, AM 1.5

		SW 50
Maximum power	$P_{max}$	37 Wp
Open circuit voltage	$V_{oc}$	19.7 V
Maximum power point voltage	$V_{mpp}$	14.5 V
Short circuit current	$I_{sc}$	3.90 A
Maximum power point current	$I_{mpp}$	2.55 A

Minor reduction in efficiency under partial load conditions at 25°C: at 200 W/m<sup>2</sup>, 92% (+/- 10%) of the STC efficiency (1000 W/m<sup>2</sup>) is achieved.

### Component materials

Cells per module	36
Cell type	monocrystalline silicon
Cell dimensions	125 x 83 mm <sup>2</sup>

### System integration parameters

Maximum system voltage	50 V <sub>DC</sub>
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### Thermal characteristics

NOCT	45.5°C
TC $I_{sc}$	0.03 %/K
TC $V_{oc}$	-0.33 %/K

### Additional data

Power tolerance	+/- 10 %
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