VELUX electric solar upgrade kit KSX 100



3 Year Guarantee

Make your manual top-operated VELUX sloped roof window solar-powered with the VELUX solar motor upgrade kit KSX. The kit includes a window operator, solar cell, battery and wireless wall switch; and features an integrated rain sensor that automatically closes the window in the event of rain. The solar upgrade kit requires no additional wiring.

- Easily upgrade your manual VELUX centre-pivot roof window to a motorised window without the need for wiring.
- Rain sensor automatically closes the window in the event of rain.
- Freely choose between manual or motorised operation of the window.
- Easily control your roof window with the wireless wall switch that offers simple open/close/stop functionality.
- Compatible with VELUX ACTIVE with NETATMO for a better indoor climate with sensor-based ventilation. Remote controlled via smartphone or voice.
- The motor is hidden in the top cover and totally invisible from view.
- Solar-rechargeable battery lasts for up to 300 operations without the need to be recharged.

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Technical information

VELUX electric solar upgrade kit KSX 100	**Material and colour**	Window operator: PBT with glass-fibre, black (NCS S 9000-N) and stainless chain Battery box: PC/Makrolon, black (6485) Solar cell: ASA, grey (NCS S 7500-N), with RWE ASI 3 solar cell Adaptor plates A and B: ASA, grey (NCS S 7500-N) Rain sensor: PPS GF 40%, black
	Size and weight description	Kit including packaging: 520 x 344 x 141 mm, 2.9 kg Window operator: 270 x 56 x 100 mm (W x H x D), 0.6 kg Solar cell: 408 x 18 x 119 mm (W x H x D), 0.42 kg Adaptor plates A and B: 432 x 20 x 143 mm (W x H x D), 0.2 kg
	Installation and use	The window operator and the battery are concealed in the top cover and function at temperatures between -10°C and +60°C.Radio frequency range: 200 m free field. Depending on building construction, the indoor range is approximately 20 m.
	Window opening	Max 200 mm within 35 seconds.
	Power consumption	Window operator: 90 uA standby, supplied by the batteries Battery: High performance battery, 10.8 V d.c., NiMH, type VELUX. Recharged continuously by the solar cell. A fully charged battery allows up to 300 operations without recharging. Solar cell: Charges current 0-80 mA (photovoltaic), dependent on the weather conditions.
	Compatibility	KSX 100 is designed for manually operated roof windows GGL and GGU. However, it cannot be installed in small windows with size codes M27, P25 and 425 as these windows require a window operator with a short chain. KSX 100 is not compatible with super sound insulation roof window GGL --62, super low energy roof window GGL --64 and security roof window GGL ----Q. KSX 100 is based on radio frequency (RF) technology, 868 MHz range, and is compatible with other products with the io-homecontrol® logo. Subsequent installation of VELUX Solar roller shutter SSL or awning blind MSL is possible if the window size code is M--/3--, P--/4--, S--/6-- or U--/8--. Only these sizes have enough room for the solar cell on the roller shutter top casing or the awning blind top cover. The installation of MSL requires adaptor plate kit ZOZ 213 which must be purchased separately. Please note that the roller shutter or the awning blind must be io-homecontrol® labelled to be compatible with the control pad for the solar roof window. If solar interior decoration and sunscreening products are combined with roller shutter SSL or awning blind MSL, the battery recharging capability of the interior decoration and sunscreening products will be reduced. Connection to non-compatible products may cause damage or malfunction.
	Connection	N/A
Pre-paired wall switch	**Materials**	ABS plastic, white (NCS S 1000-N)
	Size and weight description	8.2 cm x 8.2 cm x 1.7 cm, 0.125 kg.
	Installation and use	The wall switch is for indoor use only, between a minimum ambient temperature 5 °C and a maximum ambient temperature 45 °C. It can be used in a dry or humid environment (such as a living room or a bathroom). Radio frequency range: 300 m range open field. Depending on the building construction, the indoor range is approximately 30 m.
	Power consumption	2 x alkaline AAA (1.5V) batteries Expected battery lifetime: Up to 1 year.
Window operator, solar	**Materials**	Motor casing of polybutulene terephthalate (PBT) with glass fibre, black (NCS S 9000-N). Stainless steel chain.
	Size and weight description	370 x 50 x 110 mm (W x H x D), 1.2 kg
	Power consumption	90 uA standby, supplied by the battery. High performance battery, 10.8 V d.c., NiMH, type VELUX. Recharged continuously by the solar cell. A fully charged battery allows up to 300 operations without recharging. Expected battery lifetime of the solar powered window operator: Approximately 10 years.
	Motor capacity	Traction capacity: Min 225 N Pressure capacity: Min 150 N

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