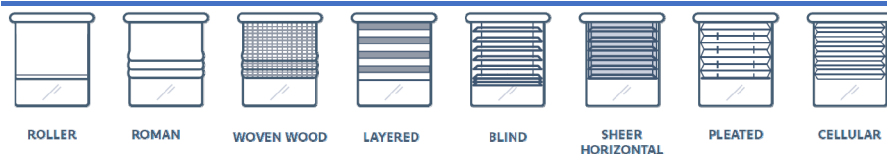


# SONESSE ULTRA 30 WF RTS Li-ion

## TECHNICAL DATASHEET

DOC152380		
TDST SONESSE ULTRA 30 WF RTS Li-ion		
Based on DOC161449 001		
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### Application scope



### Main functionalities

- For large size blinds (up to 18m²)
- Designed for silence
- Soft start and soft stop
- Built in Li-ion battery
- Thin head
- Information feedback (LED)
- Adjustable speed
- Compatible with modulus functions
- Compatible with solar panel
- Slats tilting

### Technical features

Nominal voltage	12 VDC
Protection against polarity reversal	Yes
Protection from axis stall	Yes
Cable	No cable. Connector on the motor head.
Index protection rating	IP 20 - For indoor use only
Type of limit switch unit (LSU)	Electronic, encoder based
Capacity of the LSU	200 turns
Minimum distance between limits	1 turn
Capacity of memory	12 transmitters, no sensors
Related interface drawings	Motor: GEO160616 Crown: GEO153856 Drive wheel: GEO138467 Motor plate: GEO153879

Temperature working range	0°C - 60°C
Temperature charging range	0°C - 45°C
Temperature storage range	-20°C - 60°C
Insulation class	Class III
Antenna	17,5cm wire length, must not be cut or lengthened. For greatest RF range, antenna must be out out the rail/tube/cassette

### Specifications

#### Key specifications

Nominal torque	2 Nm
Nominal speed	20±2 rpm *
Adjustable speed	10 to 28 rpm
Typical Sound Level	<42 dB(A) **

#### Electrical

Battery capacity	2600 mAh
Nominal power	<37,5 W
Up Current	<1500 mA *
Down current	<1500 mA *
Max start current	4500 mA *
Current at stall torque	7000 mA
Current at no load	<350 mA
Current without radioreception	85 µA

#### Performance

Charging time	<4,5 hours for full charge
ESD reinforced immunity	Air: up to 17kV - Contact: up to 17kV
Repeatability	± 8°
Autonomy	1 recharge per year

11 months in Somfy reference blind:

Blind description: 1,2m wide, 2m high, Ø38mm tube, bottom bar 300g/m, fabric 375g/m², 1cycle/day, 20% friction, low RF traffic.

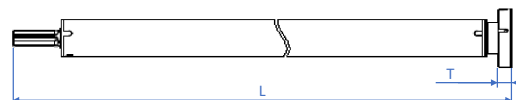
Life time	7 000 cycles on a test bench, 2m high with a 38mm tube diameter
	79% at room temperature with dynamic load (from 0,2Nm up to nominal torque)
	20% at 50°C with static load (nominal torque)
	1% at 0°C with static load (nominal torque)

\* At nominal torque & room temperature (25°C)

\*\* Power Level: - measurements according to standards ISO 3741 in dB(A) ref 1pW, at nominal torque and nominal speed, between 20°C and 35°C  
- value: highest typical value between Up direction and Down direction, based on 10 samples.

### Dimensions

Motor overall length	L	650 mm
Head thickness	T	9 mm
Head diameter	D	44 mm



### Limitations

For interior use only.

Warning: end cap friction above 20% will impact the expected autonomy.

Maximum distance between motor and charger: 5m

Do not let the charger plugged in permanently to the motor. Somfy recommends to unplug after recharge.

Motor must be fully charged prior to first use. During storage, the motor must be charged every 24 months.

Minimum tube diameter (int.): 26,6mm

Maximum tube diameter (ext.): 50mm. For greater values please contact us.

Maximum static load to be applied on the motor head: 7kg