



TS Solar

## TS-Solar: Powered by the sun

- No 230V supply required
- Power supplied via a 12V battery
- Battery is recharged by the solar panel
- Battery integrated in the motor head; no separate mounting required
- Light duration adjustable between 10 seconds and 5 minutes
- Automatic internal light, 12V, 15Watts
- Adjustable length of Soft-Stop in closing direction
- Pre-warning light adjustable
- 433 MHz remote control with rolling code for enhanced security
- Connector for photo-cell fitted as standard
- 12 V power supply for external components
- High quality wall push button supplied as standard (IP 44)

- Quick pre-assembly system
- Automatic chain tensioning
- Totally maintenance free
- Also available as battery backup solution "TS Akku"
- Automatic force measurement as to EN 12453
- EN 12445 compliant
- All operators CE-compliant
- Soft-Start and Soft-Stop
- Very quiet

## TS-Akku: Even works during a power failure

- same construction as TS Solar but shipped without solar panel - Power supplied from the regular 230V supply
- in the event of a power failure the operator will work from the integrated battery

Solar Panel with fixing bracket for use with the TS Solar



## Welcome to a new generation!

- Low power consumption
- Totally maintenance free
- Quality German engineering
- Ten years chain guarantee
- Adjustable light duration
- Quality wall push button
- Emergency release
- 4-channel hand transmitter

| Technical Data                     | TS Solar I            | TS Akku I             |
|------------------------------------|-----------------------|-----------------------|
| Max. Pulling Force                 | 60 kg (+/-4%)         | 60 kg (+/-4%)         |
| Force-Setting for Operation        | automatic             | automatic             |
| Motor                              | 12 Vdc, low-noise     | 12 Vdc, low-noise     |
| Running Speed                      | 14 cm/sec.            | 14 cm/sec.            |
| Speed in Soft Mode                 | 8 cm/sec.             | 8 cm/sec.             |
| Internal Light                     | 12 Vdc, max. 15 watts | 12 Vdc, max. 15 watts |
| Adjustable Light Duration          | 10 to 300 seconds     | 10 to 300 seconds     |
| Duty Cycle                         | 80 %                  | 80 %                  |
| Power Supply                       | by Solar Panel        | 230Vac                |
| Solar Panel                        | 10WP, 38 cells        | -                     |
| Accumulator                        | 12Vdc, 12Ah           | 12Vdc, 12Ah           |
| Pre-Warning Light                  | adjustable            | adjustable            |
| Soft-Stop in closing direction     | adjustable            | adjustable            |
| Net Running Length                 | 2,250 mm              | 2,250 mm              |
| Max. Running Length with Extension | 2,750 mm              | 2,750 mm              |
| Overall Length                     | 3,200 mm              | 3,200 mm              |
| Height Motor Head                  | 80 mm                 | 80 mm                 |
| Length Motor Head                  | 360 mm                | 360 mm                |
| Width Motor Head                   | 260 mm                | 260 mm                |
| Minimum Space above the Door       | 35 mm                 | 35 mm                 |
| Weight including Packaging         | 26 kg                 | 24 kg                 |

All data is subject to technical alterations!

ENG

# **TS Solar**

# **TS Akku**



**TS Solar with Solar Panel**

**TS Akku: The Battery Backup for  
Power Failures**

**Totally Maintenance Free**

**Ten Years Chain Guarantee**

**WE'LL OPEN YOUR DOOR. AUTOMATICALLY.**

**Seip**  
ANTRIEBS **TECHNIK**