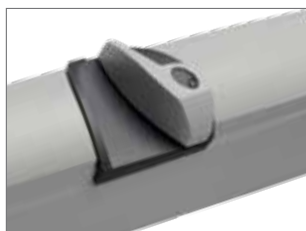




# SURF 450

Electromechanical swing gate operator for leaf length up to **4,5 m** or max. **400 kg** weight



Metal manual release  
(standard series H)



Mechanical/electronic  
stops  
(standard series H)



Strong metal gear drive  
supported by bearings  
for max resistance



Metal gears with  
bearings

- ▶ Robust, electromechanical operator with die-cast aluminium body, weather resistant, polyester paint
- ▶ Version H equipped with mechanical and electronic limit switches IP67
- ▶ Adjustable back fixing with holes
- ▶ Emergency batteries and recharge solar panel KIT SUNNY (Surf 24V) can be applied
- ▶ Operator with small width for installations also in reduced spaces
- ▶ Reversible version available
- ▶ Strong metal gear supported by bearings for max. resistance
- ▶ On request SURF with external release

| SPECIFICATIONS      | SURF 450 230V             | SURF 450 24V  |
|---------------------|---------------------------|---------------|
| Power supply        | 230Vac $\pm$ 5% - 50/60Hz | 24VDC         |
| Motor Power         | 230 W                     | 60 W          |
| Shaft Stroke        | 400 mm                    | 400 mm        |
| MaxDuty Cycles      | 100% (UNIGATE)            | 50 %          |
| Working temperature | -20°C /+ 55°C             | -20°C /+ 55°C |
| Weight              | 8 kg                      | 8 kg          |
| Max leaf length     | 4,5 m                     | 4,5 m         |
| Opening degrees     | 90°- 120°                 | 90°- 120°     |
| Shaft speed         | 1,6 cm / sec              | adjustable    |
| Protection class    | IP44                      | IP44          |
| Starting capacitor  | 10 $\mu$ F                | -             |
| Max thrust          | 3000 N                    | 2000 N        |



# UNIGATE - I

## INVERTER technology

### UNIGATE 2I (INVERTER)

- Digital control unit with LCD display
- Adjustable speed
- Adjustable acceleration/deceleration
- Continuous motor cycles
- High strength in slowdown
- Possibility to manage obstacle reverse

#### Integrated functions on the UNIGATE INVERTER

- 2 relay contacts
- 2 programmable GPIO outputs
- LE card on board for potentiometer
- Relay card on board
- PROBE heater card on board



- Management of two FV inverters for 2 motors or 2 PM modules for 4 motors
- Timer on board with buffer battery and management of 2 time bands
- 2 Ah switching transformer of which about 1.3 Ah free for other accessories

## Advantages:

- + Duty cycles
- + Torque
- + Speed (adjustable)
- + one model 90V to 265V

### ACCESSORIES



Battery kit with box



Mechanical stops  
(2 pcs)



Battery charger 800  
mA with solar panel  
admin



20W solar panel +  
ESUN Q + battery  
12 Ah



Adjustable back  
fixing bracket no  
welding (2 pcs)



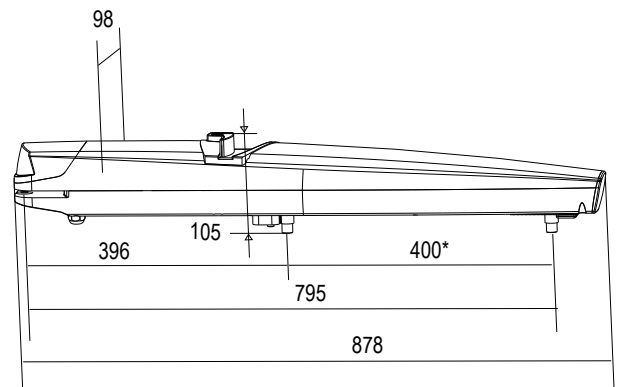
Adjustable front  
fixing bracket (2 pcs)



Din cylinder with  
variable coding  
and release lever



Bracket for external  
opening L 400 mm  
(2 pcs)



DIMENSIONS (mm)

\* with mechanical stops