

# Product data sheet

## Powerchain

Chain drive for large and heavy window elements that need large opening widths



### Product features

Fast opening speeds in the event of smoke and heat extraction, even for very heavy windows
Continuously adjustable drive stroke and individual speeds for ventilation and smoke and heat extraction
Available as special version - stroke, cable length and colour configurable
Synchronisation of max. four drives without external control unit
DIP switches for changing the mode of operation (Solo and Syncro, master, slave)
Fast and easy installation with the Smart fix installation system
IQ windowdrive - intelligent drive control
SHEV tested according to EN 12101-2

### Application Areas

Smoke and heat extraction system and natural ventilation (24 V) in the façade and roof area
Can be used in the exhaust air and air intake
Inward and outward opening windows with bottom-hung, top-hung, side-hung leaves
Roof window
Installation on wooden, PVC or metal windows
Leaf and frame installation
Synchronisation of up to four drives
System solution in combination with the Power lock locking drive

### Product Data Table

Productname	Powerchain
Dimensions (W x H x D)	Length x 36 x 51 mm
Length	Stroke 600: 756 mm, stroke 800: 856 mm, stroke 1200: 1056 mm (each with consoles)
Height	36 mm
Depth	51 mm
Space required on frame (min.)	Frame installation inward-opening: 50/61 mm (for swing leaf DIN L),, leaf installation inward-opening: 30/41 mm (for swing leaf DIN R),, frame installation outward-opening: 50 mm
Space requirement on leaf (min.)	Frame installation inward-opening: 40 mm, leaf installation inward-opening: 50 mm, Frame installation outward-opening 30/41 mm (for swing leaf DIN R)
Possible stroke heights	600 mm, 800 mm, 1200 mm
Opening speed RWA	15 mm/s
Opening speed ventilation	5 mm/s
Tensile force (max.)	600 N

Force of pressure (max.)	600 N (depending on stroke), see force-path diagram
Holding force (max.)	3000 N
Leaf weight (max.)	200 kg*
Overlap range	0 - 23 mm (depending on application and brackets)
Operating voltage	24 V, $\pm 25\%$
Current consumption	1.5 A
Current consumption	Ventilation (24 V): 1.2 A; RWA (18 V): 1.5 A
Power consumption (max.)	36 W
Duty rating	30 %
Special length of power supply cable	5 m, 7.5 m
Cable dimensions	4 x 0.75 mm <sup>2</sup>
Temperature range	-5 °C - 70 °C
IP rating / protection rating	IP40 / III
Syncro function	Yes
Adjustable opening speed (ventilation)	Yes
Additional locking available	Yes
Type of additional locking	Locking drive
Type of stroke shortening	Synchronising unit, Factory setting
End position cut-off extended	electronic, via internal path sensor
End position cut-off retracted	electronic via current consumption
Overload cut-off	Yes
Complete opening within 60 s	yes, up to 800 mm stroke, including locking drive
SHEV tested	Yes
SHEV additional information	yes, up to 800 mm stroke, including locking drive
Synchronisation (max.)	4 drives
Bottom-hung window INWARD-opening frame installation	Yes
Bottom-hung window INWARD-opening leaf installation	Yes
Bottom-hung window OUTWARD-opening frame installation	Yes
Side-hung window INWARD-opening frame installation	Yes
Side-hung window INWARD-opening door leaf installation	Yes
Side-hung window OUTWARD-opening frame installation	Yes
Top-hung window INWARD-opening frame installation	Yes
Top-hung window INWARD-opening leaf installation	Yes

Top-hung window OUTWARD-opening frame installation	Yes
OUTWARD-opening roof window	Yes

### Accessory

Product name
Console set ET Powerchain
Console set A Powerchain
Console set B Powerchain
Console set roof D1 Powerchain
Bracket set roof D2
Bracket set roof D3
Bracket set Powerchain special version
Safety scissor stay no. 35
Safety scissor stay no. 60
Bracket set Powerchain roof special version
Service case IQ windowdrive