



TECHNICAL SPECIFICATIONS

	V-SERIES 300 SMART	V-SERIES 400 SMART	V-SERIES 500 SMART
Input voltage	90V - 240V AC ±10%, 50/60Hz		
Motor voltage	12V DC		
Motor power supply	Battery-driven (standard capacity - 7.2Ah) ¹		
Battery charger ²	1.8A @ 13.8V		
Current consumption (mains)	170mA		
Current consumption (motor at rated load)	15A - Maximum		
Operator push force - maximum	250kgf		
Operator stroke	300mm	400mm	500mm
Piston extension / retraction speed	28mm/sec (variable)		
Typical gate opening time ³	11.3 sec	14.3 sec	17.8sec
Manual override	Key release ⁴		
Maximum number of operations per day	250		
Duty cycle - Mains present ^{5,6}	50%		
Maximum operations during battery backup (no mains power) with 7.2Ah battery ⁷			
Half day	70 cycles		
Full day	58 cycles		
Collision sensing	Electronic		
Operating temperature range	-15°C to +50°C		
Degree of protection	IP55		
Controller incorporated	Vx SMART in separate wallbox		
Onboard receiver type	NOVA code-hopping onboard multichannel		
Receiver frequency	433.92MHz		
Receiver code storage capacity	1500 Remotes ⁸		
Mass of unit packed			
Single kit ⁹	8kg	8.5kg	9kg
Double kit ¹⁰	13kg	14kg	15kg
Packaging dimensions			
Single kit	Length: 1125mm Width: 335mm Height: 270mm ¹¹		

1. Can increase battery capacity for longer standby times.
2. Can operate off a solar supply, consult your reseller for assistance.
3. Assumes a full stroke of operator is used with no wind present.
4. Each operator comes with a unique set of keys.
5. Based on 25°C ambient temperature and unit not in direct sunlight.
6. Based on an operator push force of less than 50% of rated.

7. Based on double kit excluding Infrared Safety Beams.
8. Multiple buttons per remote can be used.
9. Single kit contains one operator and Wall Box.
10. Double kit contains two operators and one Wall Box.
11. Double kit contains two boxes with a height of 270mm each.



INSTALLATION INFORMATION

Allowable Gate Mass

Maximum Allowable Gate Mass for V-SERIES 300 SMART Operator

Gate swing angle	Up to 1.5m	Up to 2m	Up to 2.5m	Up to 3m¹	Up to 3.5m¹	Up to 4m¹
90°	350kg	350kg	335kg	230kg	N/A	N/A
100°	350kg	350kg	335kg	230kg	N/A	N/A

1. For gate leaves in excess of 2.5m, an electric lock must be fitted to secure gate in closed position.

Maximum Allowable Gate Mass for V-SERIES 400 SMART Operator

Gate swing angle	Up to 1.5m	Up to 2m	Up to 2.5m	Up to 3m¹	Up to 3.5m¹	Up to 4m¹
90°	500kg	500kg	500kg	360kg	260kg	200kg
100°	500kg	500kg	388kg	160kg	190kg	150kg
110°	500kg	306kg	198kg	130kg		
120°	180kg	100kg	65kg			

1. For gate leaves in excess of 2.5m, an electric lock must be fitted to secure gate in closed position.

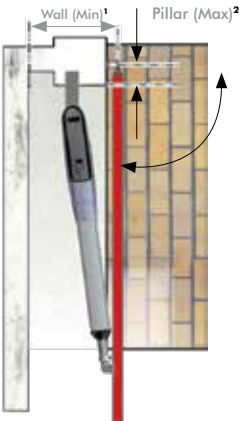
Maximum Allowable Gate Mass for V-SERIES 500 SMART Operator

Gate swing angle	Up to 1.5m	Up to 2m	Up to 2.5m	Up to 3m¹	Up to 3.5m¹	Up to 4m¹
90°	750kg	750kg	750kg	550kg	410kg	310kg
100°	750kg	750kg	600kg	420kg	310kg	230kg
110°	750kg	500kg	320kg	220kg		
120°	310kg	170kg	110kg			

1. For gate leaves in excess of 2.5m, an electric lock must be fitted to secure gate in closed position.

MINIMUM INSTALLATION REQUIREMENTS

Gate opening 90° or less



Operator	Wall (Min)¹	Pillar (Max)²
V-SERIES 300 SMART	200mm	90mm
V-SERIES 400 SMART	200mm	165mm
V-SERIES 500 SMART	200mm	245mm

1. The typical minimum wall clearance required to fit the operator.
2. The maximum allowable pillar thickness on which to fit the operator.

Wind Loading

V-SERIES 300 SMART MAXIMUM OPENING SPEED

	1.5m	2m	2.5m	3m	3.5m	4m
Gate length						
Gate height	1.8m	1.8m	1.8m	1.8m	N/A	N/A
Allowable wind speed 25% clad(km/h)¹	105	78	62	52	N/A	N/A
Allowable wind speed 100% clad (km/h)¹	52	39	31	26	N/A	N/A

V-SERIES 400 SMART MAXIMUM OPENING SPEED

	1.5m	2m	2.5m	3m	3.5m	4m
Gate length						
Gate height	1.8m	1.8m	1.8m	1.8m	1.8m	1.8m
Allowable wind speed 25% clad(km/h)¹	122	91	72	60	52	46
Allowable wind speed 100% clad (km/h)¹	61	45	36	30	26	23

V-SERIES 500 SMART MAXIMUM OPENING SPEED

	1.5m	2m	2.5m	3m	3.5m	4m
Gate length						
Gate height	1.8m	1.8m	1.8m	1.8m	1.8m	1.8m
Allowable wind speed 25% clad(km/h)¹	134	100	79	67	58	51
Allowable wind speed 100% clad (km/h)¹	67	50	39	33	29	25

1. Gate opening and closing times will increase as wind speeds increase.

OVERALL DIMENSIONS

