





SWING GATE OPERATORS

There is virtually no limit to the capabilities of our swing gate operators; combining industry-leading functionality, world-class reliability and ease of installation, Centurion Systems' swing gate operators truly are in a league of their own. We have even given special attention to aesthetic value, ensuring that your gate operator is as good-looking as it is dependable.



SWING GATE OPERATOR QUICK SELECTION GUIDE

This quick selection guide will help you to select the perfect CENTURION for you or your client's swing gate by providing the differentiating features and key specifications of each.



	V-SMART 300	V-SMART 400	V-SMART 500
Input voltage	90V - 240V AC	90V - 240V AC	90V - 240V AC
Mains power required at gate	✓ / Solar	✓ / Solar	✓ / Solar
Gate mass – maximum	-	-	-
Gate speed – maximum³	-	-	-
Maximum gate leaf width for corresponding gate mass	2m - 500kg	2m - 500kg	2m - 750kg
	4m - 200kg	4m - 200kg	4m - 310kg
Typical gate opening time	<11.3 sec	<14.3 sec	<17.8 sec
Maximum daily operations	250	250	250
Duty cycle – mains present¹	-	-	-
Daily operations - maximum²	250	250	250
Interface type	Mobile app	Mobile app	Mobile app
Time-barring and automatic activation	✓	✓	✓
Onboard multichannel receiver	✓	✓	✓

1. Based on a 25° ambient temperature and unit not in direct sunlight

2. Battery-driven typically using a 7Ah D-SERIES battery and a charger (battery can be upgraded for greater power failure autonomy – mounted separately). Solar power may also be used.

3. Gate opening and closing speeds can be configured to run slower depending on the requirements of individual installations



	R6
Input voltage ¹	90V - 240V AC
Maximum gate leaf width for corresponding gate mass	2m - 600kg
	3.5m - 260kg
Typical gate opening time	17 sec
Maximum daily operations	250
Onboard multichannel receiver	-
Interface type	LED-based
Automatic beam test	-

1. Can operate off a solar supply, consult Centurion Systems for assistance

VANTAGE SMART LINEAR SWING GATE OPERATORS



The VANTAGE SMART linear swing gate motor, available in three models with actuation strokes of 300, 400mm and 500mm, respectively, has been designed to automate a wide variety of swing gates, from single or double light-domestic gates to heavy industrial double swing gates.

The fail-safe and fully-redundant Position and Collision Detection System has been designed and tested to set the standard in safety of operation and to provide an unparalleled level of reliability and durability in operation.

The gate Travel Limits are managed by a sealed opto-electronic system that has been designed not only to ensure ultra-reliable operation, but also to ensure precise position and trajectory control. This enables very accurate and reliable collision detection to ensure safe operation even under trying conditions.



MAIN FEATURES

Mechanical Features

- Interactive graphic user interface via a smartphone application
- Automated setup of gate endpoints (limits)
- Independently-adjustable motor speed in both opening and closing directions
- Fail-safe collision detection and auto-reverse (adjustable sensitivity)
- Smooth, adjustable start/stop (ramp-up/ramp-down)
- Multiple operational modes
- Selectable, adjustable Autoclose
- Pedestrian (partial) opening
- Positive Close Mode
- Supports up to three sets of Photon SMART Safety beams
- Independent safety inputs for opening and closing beams (wired)
- Automatic beam test for both opening and closing beams (wired)
- Advanced lightning/surge protection
- Onboard NOVA code-hopping radio receiver with full channel-mapping capability (1500 MyCentsys Remote users¹)

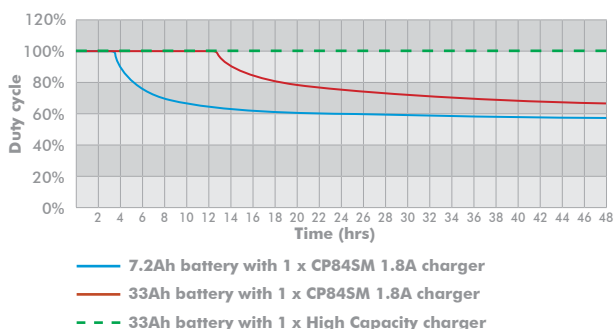
1. Multiple buttons per remote can be used.

TECHNICAL SPECIFICATIONS

Technical Data	VANTAGE SMART 300	VANTAGE SMART 400	VANTAGE SMART 500
Input voltage	220V AC $\pm 10\%$, 50Hz	220V AC $\pm 10\%$, 50Hz	220V AC $\pm 10\%$, 50Hz
Motor voltage	12V DC	12V DC	12V DC
Motor power supply ²	Battery-driven (standard capacity - 7Ah) ¹		
Battery charger ¹	CP84SM - 1.8A @ 13.7V	CP84SM - 1.8A @ 13.7V	CP84SM - 1.8A @ 13.7V
Current consumption (mains)	170mA	170mA	170mA
Current consumption (motor at rated load)	3/13A	3/13A	3/13A
Current consumption (quiescent load)	70mA	70mA	70mA
Operator push force - maximum	220kgf	220kgf	220kgf
Operator stroke	300mm	400mm	500mm
Maximum leaf width for corresponding to gate mass	2m/500kg	2m/500kg	2m/750kg
	4m/200kg	4m/200kg	4m/310kg
Gate opening time - typical ³	11 sec	14.3 sec	17.8 sec
Maximum daily cycle	250 cycle/day	250 cycle/day	250 cycle/day
Design life	150 000 cycles	150 000 cycles	150 000 cycles
Duty cycle - Mains present ^{5 6}	50%	50%	50%
Operations in standby with standard battery ⁷			
Half day	70		
Full day	58		
Collision sensing	Electronic	Electronic	Electronic
Operating temperature	-15°C to +50°C	-15°C to +50°C	-15°C to +50°C
Degree of protection	IP55	IP55	IP55
Controller incorporated	V-Series in separate wallbox	V-Series in separate wallbox	V-Series in separate wallbox
Onboard receiver type	NOVA code-hopping onboard, multichannel		
Receiver frequency	433.92MHz	433.92MHz	433.92MHz
Receiver code storage capacity	60 transmitter buttons	60 transmitter buttons	60 transmitter buttons
Mass of unit packed			
Single kit	8kg	8.5kg	9kg
Double kit	13kg	14kg	15kg
Packaging dimensions			
Single kit ⁸	Length: 1125mm x Width: 335mm x Height: 270mm	Length: 1125mm x Width: 335mm x Height: 270mm	Width: 1105mm x Width: 335mm x Height: 270mm
Double kit ⁹	Width: 1105mm x Width: 335mm x Height: 270mm	Width: 1105mm x Width: 335mm x Height: 270mm	Width: 1105mm x Width: 335mm x Height: 270mm

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 on a level gate with no wind.
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. Single kit contains one operator and Wall Box.
9. Double kit contains two operators and one Wall Box.

VANTAGE SMART single operator duty cycle as a function of operating time





CABLING REQUIREMENTS

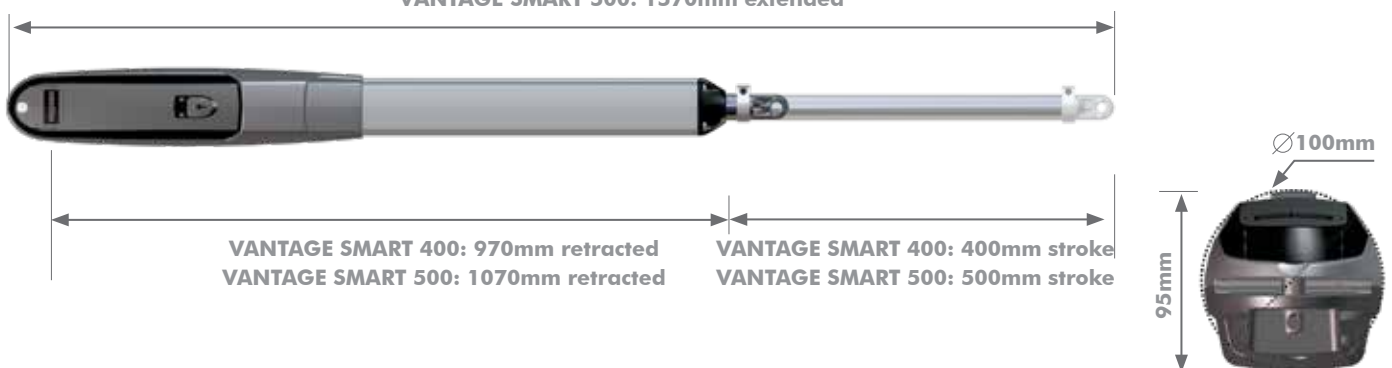
1. 90V / 220V - 240V AC mains cable via mains isolator switch¹ (3 core LNE 1,5mm² SWA)², or low-voltage 15V - 19V AC cable via transformer in dwelling (3 core LNE 1.5mm² Surfix)³
2. Master Motor (MTR M) or Slave Motor (MTR S) cable (minimum, 2 core 2mm² + 4 core 0,5mm² multi-stranded) see note⁶

Optional Wiring (all cable is multi-stranded):

3. Intercom, cable from control box to dwelling (n1⁷ + 6 core⁴ 0.5mm² multi-stranded) or cable from control box to entry panel (n2⁷ 0.5mm² multi-stranded)
4. Radio receiver cable (3 core 0,5mm² multi-stranded, optional)⁵
5. Pedestrian Keyswitch (2 core 0,5mm² multi-stranded) or optional keypad (3 core 0,5mm² multi-stranded)
6. Infrared Safety Beams or safety edge (3 core 0,5mm² multi-stranded or 4 core 0.5mm² for CE compliance)
7. Intercom cable (n2 + 2 core 0,5mm² multi-stranded) to gate station
8. Electric lock (2 core 1.5mm²)
9. Pillar Light cable (3 core LNE SWA), size according to power regulations)
10. Inductive loop detector for free-exit (1 core 0.5mm² multi-stranded - silicone-coated)

1. Mains isolator must be fitted less than 1m from controller
2. Increase cable thickness if Pillar Lights are to be installed
3. Screened cable is always recommended to provide better protection against lightning - earth one end of screening
4. Domestic charger only
5. For optimum range an external receiver can be mounted on the wall
6. CENTURION has available custom **VANTAGE SMART** cable order reference: CABLEVEC68
7. Number of cores required by the intercom

VANTAGE SMART 400: 1370mm extended
VANTAGE SMART 500: 1570mm extended





SWING GATE OPERATOR ACCESSORIES



CENTURION INFRARED SAFETY BEAMS

Always recommended on any gate automation installation to increase the safety of the automated system.



FLUX SA LOOP DETECTOR

Allows free-exit of vehicles from the property (requires ground loop to be fitted).



SOLAR SUPPLY

Alternative means of powering the system with our 20, 40, 60, 80, 120 or 150 Watt panels.



CENTURION NOVA TRANSMITTER

Incorporates ultra-secure code-hopping technology. Available in one-, two-, three- and four-button variants.



G-ULTRA GSM DEVICE

The ultimate new GSM solution for monitoring and activating electrical appliances via your mobile phone.



SMARTGUARD or SMARTGUARDair KEYPAD

Cost-effective and versatile wired or wireless keypad, allowing access for pedestrians.



CENTURION INTERCOM SYSTEM

Allows visitors to communicate with people inside in order to gain access to the property.



G-SPEAK ULTRA

Allows you to answer your intercom from anywhere.



V-SERIES CONTROL BOX

A fully weatherproof wallmounted enclosure for the operator's controller electronics



GOOSENECK

Steel pole for mounting intercom gate station or access control.



V-SERIES CABLE

Cable has been optimised for the V-SERIES range of swing gate operators to provide reliable operation time and time again.

SWING GATE OPERATOR KITS

SINGLE VANTAGE SMART 300, 400 or 500 KIT

Product Code: **VAN4KITSLIND** or **VAN5KITSLIND**

- **1 x VANTAGE SMART operator including:**
 - Mounting hardware **K**
- **1 x Wallbox including: C**
 - 1 x Mains isolator
 - 1 x 2A Switch Mode charger **G**
 - 1 x V-Series Controller **A**
- 1 x 7Ah battery **H**
- 1 x Battery housing **J**
- 2 x 4 button CENTURION transmitters **C**

DOUBLE VANTAGE SMART 300, 400 or 500 KIT

Product Code: **VAN4KITDLIND** or **VAN5KITDLIND**

- **2 x VANTAGE SMART operators including:**
 - Mounting hardware **K**
- **1 x Wallbox including: B**
 - 1 x Mains isolator
 - 1 x 2A Switch Mode charger **G**
 - 1 x V-Series Controller **A**
- 1 x 7Ah battery **H**
- 1 x Battery housing **J**
- 2 x 4 button CENTURION transmitters **D**



1 VANTAGE SMART



A

V-SERIES
controller



B

V-SERIES
wallbox kit



C

CENTURION
NOVA transmitter



D

CP13E 24V
charger



E

800mA charger



F

2A Switch Mode
charger



G

7Ah
battery



H

33Ah
battery



I

Battery
housing



J

V-SERIES mounting
hardware



R6 SWING GATE OPERATORS

The R6 is a gate motor of obvious distinction that you'll be proud to own. Its velvety movement is visual poetry and makes the R6 the latest word in comfort that will not only be a striking addition to your swing gate, but offers stalwart security, convenience and reliability.

And it's built strong, too! Our proven techniques combined with superior engineering and the most robust and durable materials ensures that the R6 is a long-term companion for your swing gate and a formidable access automation solution for your home. The R6 is not only polished and refined, but it's your assurance of peace of mind.



MAIN FEATURES

Main Features

- Making lives easier- It's a rotary motor that turns difficult limit procedures on its head! Ingeniously designed and conceived to be intuitive and userfriendly, setting the R6 for precise, pinpoint stopping just couldn't be easier.
- The ultimate in security- The R6's rapid opening and closing help to ensure that you get into your property safely and securely. If you're worried about someone sneaking in behind you, use the Beam Autoclose feature to set your gates to automatically close the moment you have driven in and ruin any criminal's day.
- Smooth and reliable- The sinusoidal motion of the R6 ensures that your gate smoothly accelerates then gradually comes to a gentle stop. Beyond just looking more professional, this fluid movement actually prolongs the lifespan of the motor. No shock-loading means the R6 will serve you for many years to come.
- Upgrade to the best- The innovative mechanical design of the R6 means it can effortlessly and seamlessly be retrofitted to replace old motors
- Uninterrupted operation- The R6 boasts our time-proven battery backup, so you can always get in and out - even when the power is out.
- Safe and quiet functioning- The R6's geared DC motor is very hush-hush and won't disturb the tranquillity. In addition, sensitive collision detection technology means that your gates can always be operated in complete safety.
- So versatile- We've ensured that the R6 offers the highest level of flexibility and can be adapted to a host of different sites.

	R6			
Input voltage	90V - 240V AC +/-10% @ 50Hz1			
Motor voltage	12V DC			
Current Consumption (mains) CP13E CP84SM	80mA 170mA			
Maximum DC Current Draw	16A			
Maximum Output Torque Standard-torque operator High-torque operator	300Nm 390Nm			
Power Supply3 Domestic Light-industrial Industrial	0.8A CP13E, 7.2Ah Battery 1.8A CP84SM, 7.2Ah Battery 1.8A CP84SM, 33Ah Battery			
Maximum Daily Operations	Mains present		Back-up²	
	Double leaf	Single leaf	Double leaf	Single leaf
	20	30	20	30
	250	250	40	60
Domestic	250	250	250	250
Light-industrial				
Industrial				
Maximum Daily Continuous Operations	Mains present			
	Double leaf		Single leaf	
	20		30	
	50		50	
Domestic	100		100	
Light-industrial				
Industrial				
Typical Gate Operating Time Standard-torque operator High-torque operator	12s 15s			
Mass of Motor Kit4 (excluding pedestal or wall bracket)	15kg			
Collision Sensitivity	Electronic - Adjustable			
Temperature Range	-15°C to +50°C			
Housing Protection	IP55			

1: Can operate off a solar supply, please consult Centurion Systems (Pty) Ltd for assistance.

2: These values are based on fully charged batteries, derate accordingly based on connected ancillaries.

3: Choose appropriate variation based on site requirements.

4: The weight of an operator kit (regardless of Master or Slave).

GATE SPECIFICATIONS

R6 Standard-Torque Operator									R6 High-Torque Operator								
Gate Length (m)	1.5	2	2.5	3 ²	3.5 ²	4 ²	4.5 ²	5 ²	Gate Length (m)	1.5	2	2.5	3 ²	3.5 ²	4 ²	4.5 ²	5 ²
Gate Height (m)	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	Gate Height (m)	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Max Mass (Kg)	500	500	480	330	240	185	145	120	Max Mass (Kg)	750	750	620	430	315	240	190	155
Allowable Wind Speed For 25% Clad (Km/h)¹	114	84.7	67.3	56.9	49.2	43.2	38.6	34.8	Allowable Wind Speed For 25% Clad (Km/h)¹	128.4	95	76.3	64.6	55.9	49.2	43.9	39.6
Allowable Wind Speed For 100% Clad (Km/h)¹	57	42.4	33.6	28.5	24.6	21.6	19.3	17.4	Allowable Wind Speed For 100% Clad (Km/h)¹	64.2	47.5	38.1	32.3	27.9	24.6	21.9	19.8

1: No wind opening time ~ 12s. Gate opening and closing times will increase as wind speed increases.

2: Fit an electric gate lock if the leaf width is greater than 3 metres.

1: No wind opening time ~ 15s. Gate opening and closing times will increase as wind speed increases.

2: Fit an electric gate lock if the leaf width is greater than 3 metres.





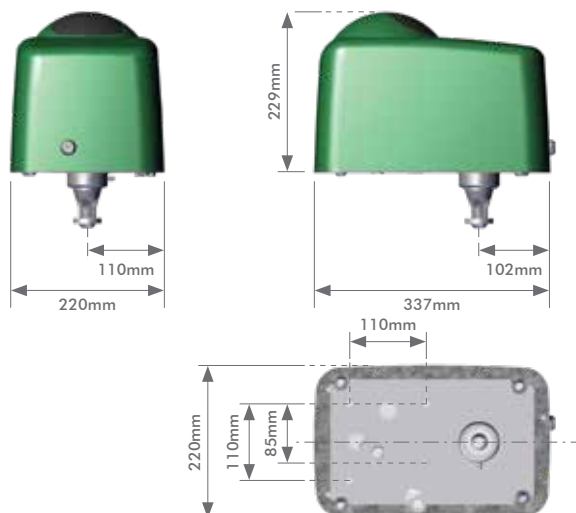
CABLING REQUIREMENTS

1. 90V / 220V - 240V AC mains cable via mains isolator switch¹ (3 core LNE 1,5mm² SWA)^{1,2}, or low-voltage 15V - 19V AC cable via transformer in dwelling (3 core LNE 1.5mm² Surfix)⁶
2. Master Motor (MTR M) or Slave Motor (MTR S) cable (minimum, 2 core 2mm² + 4 core 0,5mm² multi-stranded)⁶

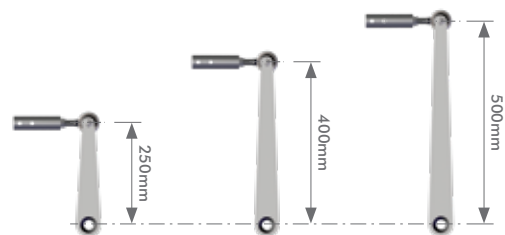
Optional Wiring (all cable is multi-stranded):

3. Radio receiver cable (3 core 0,5mm² multi-stranded, optional)⁴
 4. Pedestrian Keyswitch (2 core 0,5mm² multi-stranded) or optional keypad (3 core 0,5mm² multi-stranded)
 5. Infrared Safety Beams or safety edge (3 core 0,5mm² multi-stranded or 4 core 0.5mm² for CE compliance)
 6. Intercom cable (n2⁵ + 2 core 0,5mm² multi-stranded) to gate station
 7. Electric lock (2 core 1.5mm²)
 8. Pillar Light cable (3 core LNE SWA), size according to power regulations)
 9. Inductive loop detector for free-exit (1 core 0.5mm² multi-stranded - silicone-coated)
1. Mains isolator must be fitted less than 1m from controlle
 2. Possibly increase cable thickness if Pillar Lights are to be installed
 3. Type of cable must adhere to municipal bylaws and preferably be screened. Screening provides better protection against lightning - earth one end of the screening
 4. For optimum range an external radio receiver can be mounted on the wall
 5. Number of cores required by the intercom
 6. Screened cable is always recommended to provide better protection against lightning. Earth one end of screening

OVERALL DIMENSIONS



DRIVE ARMS¹



1: Choose appropriate variation based on site requirements.



R6 SWING

INTRODUCING THE R6 ROTARY SWING GATE MOTOR: AN OPERATOR THAT'S A SWING ABOVE THE REST

Because access gates are intended to serve a specific purpose and need to be suited to the environment, application and architectural context of their installation, it stands to reason that gates come in a variety of different shapes and sizes. While gates can be divided into two broad categories – namely swing and sliding – there are further factors that may influence the profile and orientation of your gate and, by extension, the type of operator needed to automate it.

For the purpose of this article, we'll be focusing specifically on swing gates because, as you'll find out, swing gates generally have certain nuances and characteristics that will determine your choice of automation system. If this is something you'd like to learn more about – as well as how our latest cutting-edge tech can help solve your swing gate automation needs – read on!

Choosing the right gate operator for your specific gate is crucial, as it determines the gate's functionality, security, and overall performance. Factors such as the size and weight of the gate, the frequency of use, and the architectural environment of the gate's installation all play a role in determining the appropriate operator. For swing gates, there are two primary types of operators: linear and rotary. The choice of operator will depend on the specific profile of the gate. While linear operators are suitable for some gates, rotary operators provide a more specialised solution for other gates.

The upshot of this division is that you need to give careful consideration to what sort of technology will provide the best reliability for your gate and, for rotary configurations, the newly-launched R6 is a stalwart solution for the ultimate in security, convenience and peace of mind.

The R6 is a gate motor of obvious distinction that you'll be proud to own. Its velvety movement is visual poetry and makes the R6 the latest word in comfort that will not only be a striking addition to your swing gate, but offers stalwart security, convenience and reliability.

And it's built strong, too! Our proven techniques combined with superior engineering and the most robust and durable materials ensure that the R6 is a long-term companion for your swing gate and a formidable access automation solution for your home.

With innovative built-in safety and security features, the R6 is not only polished and refined, but it's your assurance of peace of mind.

Here are some additional features that make the R6 a swing above the rest:

- The ultimate in security with a solidly-built internal locking mechanism and rapid opening and closing
- Fluid sinusoidal motion – looks more professional and prolongs the lifespan of the motor
- Ready for any power outage with time-proven battery backup
- Safe and quiet functioning
- Easy to upgrade to the latest and best – can be retrofitted to existing R3, R5 and MaxiMate sites

Choose the rotary swing gate motor that's a swing above the rest – get your R6 today from your nearest CENTURION branch and leading security outlets nationwide.

CENTURION: making lives easier.



SWING GATE OPERATOR ACCESSORIES



CENTURION INFRARED SAFETY BEAMS

Always recommended on any gate automation installation to increase the safety of the automated system.



FLUX SA LOOP DETECTOR

Allows free-exit of vehicles from the property (requires ground loop to be fitted).



SOLAR SUPPLY

Alternative means of powering the system with our 20, 40, 60, 80, 120 or 150 Watt panels.



CENTURION NOVA TRANSMITTER

Incorporates ultra-secure code-hopping technology. Available in one-, two- and four-button variants.



G-ULTRA GSM DEVICE

The ultimate new GSM solution for monitoring and activating electrical appliances via your mobile phone.



SMARTGUARD or SMARTGUARDAIR KEYPAD

Cost-effective and versatile wired or wireless keypad, allowing access for pedestrians.

**CENTURION INTERCOM SYSTEM**

Allows visitors to communicate with people inside in order to gain access to the property.

**G-SPEAK ULTRA**

Allows you to answer your intercom from anywhere.

**CP77 CONTROL BOX**

A fully weatherproof wallmounted enclosure for the operator's controller electronics

**GOOSENECK**

Steel pole for mounting intercom gate station or access control.

**V-SERIES CABLE**

Cable has been optimised for the V-SERIES range of swing gate operators to provide reliable operation time and time again.

SWING GATE OPERATOR KITS

SINGLE R6 PEDESTAL/WALL-MOUNT KIT 1

Product Code: Pedestal: R611PV1, Wall: R611WV1

- **1 x R6 operator including:**
 - 1 x 2A Switch Mode charger D
 - 1 x Controller A
 - 1 x 7Ah/33Ah battery E/F
- Mounting hardware H
- 1 x Separate battery housing G
- 1 x Drive arms I

DOUBLE R6 PEDESTAL/WALL-MOUNT KIT 1

Product Code: Pedestal: R621PV1, Wall: R621WV1

- **2 x R6 operators including:**
 - 2 x 2A Switch Mode charger D
 - 2 x Controller A
 - 2 x 7Ah/33Ah battery E/F
- Mounting hardware H
- 1 x Separate battery housing G
- 2 x Drive arms I



1 R6



A

CP77 24V
controller



B

CP77
wallbox kit



C

CENTURION
NOVA transmitter



D

CP13E 24V
charger



E

7Ah
battery



F

33Ah
battery



G

Battery
housing



H

R6 mounting
hardware



I

R6
Drive arms