

FOR FISHERY INDUSTRY

One Switch for Rolling Up and Down Automatic Anchor Winch for Leisure Boat Use

- Automatic rolling system, chain/rope available.
- Made with stainless alloy to limit corrosion.
- Stylish design.



Rope Guide

RA-2012H

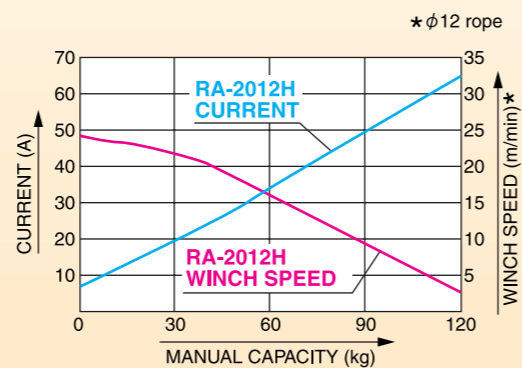
Recommendation

	Rope	Chain	Anchor
Size	12 mm Rope 3 Wire Rope	6 mm Short Link Chain (Stainless)	Max. Approx. 7 kg (Recommend: Danforce)
Length	Approx. 100 m	Approx. 5 m	_____
Remark	11 kg – 18 kg (Dry)	6 kg – 8kg	_____

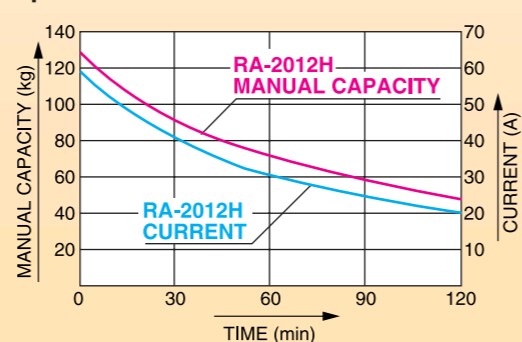
Specifications

Model	RA-2012H
Voltage	DC 12V (±10%)
Rated Current	24 A (40 kg) – 65 A (120 kg)
Motor Output	200 W
Rating	1 hr / 24 A
Roller Revolution	80 rpm
Manual Capacity	Max. 120 kg (65 A)
Capacity Rating	40 kg [20 m/min (65 ft/min)]
Winch Speed (Max.)	24 m/min (79 ft/mn)
Down Rolling Speed (Max.)	30 m/min (98 ft/mn)
Standard Accessories	1 Power Cord (8mm ² 2 cores x 8 m), 1 UP-DOWN Label, 6 Solderless Terminals (5.5mm ²), 8 Solderless Terminals (8mm ²), 3 Connection Cords, 1 Rope Guide, 6 Tab-on Terminals, 3 Roll Washers, 1 Breaker (30A), 6 M4 +Screws & Nuts, 1 Toggle Switch
Gross Weight	19 kg
Dimensions LxWxH (mm)	460 x 255 x 324
Packing Unit	1

Performance Curve



Operation Limit



"MINI-CARL" Double Life Time with Titan Boron Alloy

- Compact and light.
- Alumite treatment for high durability anti-rusting.
- One button for all work.
- Changeable button location for more convenience.



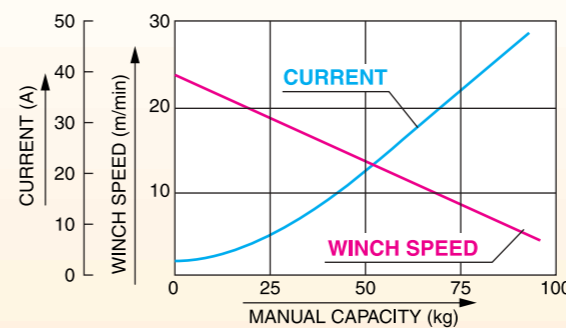
RN-2012



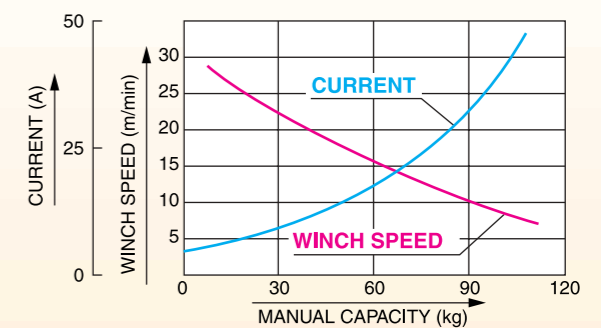
RN-2012H

Performance Curve

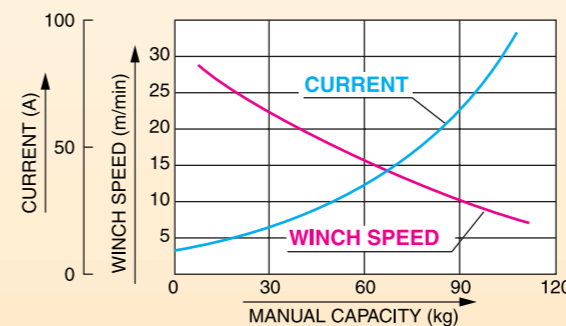
• RN-2012



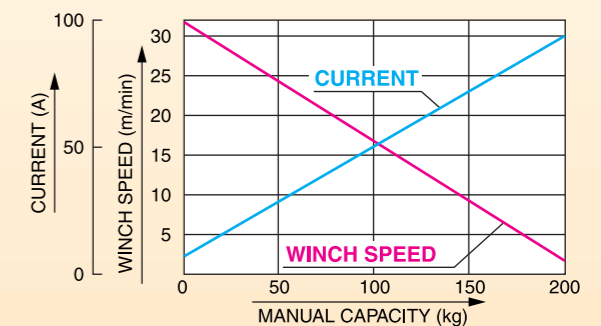
• RN-2024H



• RN-2012H



• RN-2512H



Specifications

Model	RN-2012	RN-2012H	RN-2024H	RN-2512H
Voltage	DC 12 V		DC 24 V	DC 12 V
Rated Current	15 A	24 A	13 A	30 A
Motor Output	140 W	200 W		250 W
Rating	1 h / 15 A	1 h / 24 A	1 h / 13 A	1 h / 30 A
Roller Revolution	100 rpm			120 rpm
Manual Capacity (Max.)	50 kg (45 A)	120 kg (85 A)	120 kg (40 A)	200 kg (110 A)
Winch Speed	27 m/min (89 ft/min)			32 m/min (105 ft/min)
Breaker	15 A	30 A	20 A	30 A
Standard Accessories	1 Breaker, 1 Packing,	1 Power cord (5.5 mm ² x 10 m x 2 cores), 2 +Screws (M4 x 8),	2 Nuts (M4) 4 Solderless Terminals	
Net Weight	9 kg	13 kg	15 kg	
Packing Unit	1			

Light weight & Compact Most Suitable for Fishing Boats

Applications

- Winding anchor for boats
- Drawing fishing net
- Towing line
- Winding up basket



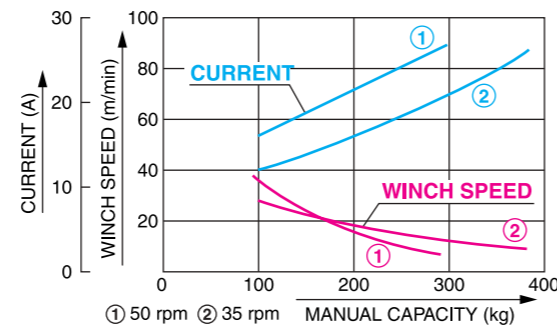
RES-2512



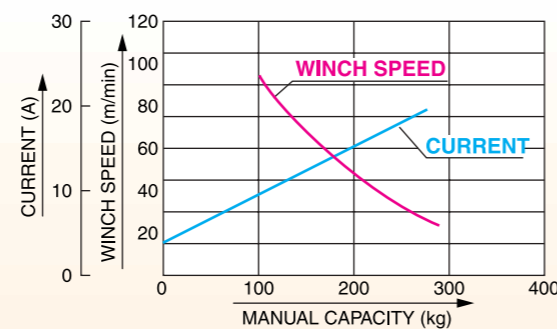
REL-2512

Performance Curve

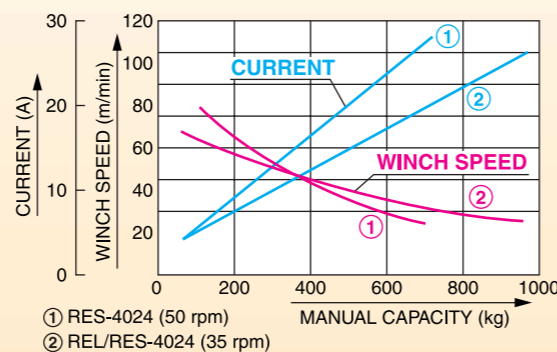
• RES-2512, REL-2512 (250 W, 12 V Type)



• REL-2524 (250 W, 24 V Type)



• RES-4024, REL/RES-4024 (400 W, 24 V Type)



Specifications

Model	RES-2512	REL-2512	REL-2524	RES-4024	REL-4024	RES-4024L	REL-4024L
Voltage	DC 12 V		DC 24 V				
Rated Current	30 A		15 A	25 A			
Motor Output	250 W		400 W				
Rating	1 h / 30 A		1 h / 15 A	1 h / 25 A			
Roller Revolution	50 rpm (Low), 100 rpm (High)		100 rpm (Low/High)	50 rpm (Low), 100 rpm (High)		35 rpm (Low), 70 rpm (High)	
Manual Capacity	Max. 280 kg (Low), 140 kg (High), (90 A) Rating 90 kg (Low), 45 kg (High), (30 A)		300 kg (80 A) 140 kg (15 A)	700 kg (Low), 350 kg (High), (110 A) 140 kg (Low), 70 kg (High), (25 A)		900 kg (Low) 450 kg (High), (110 A) 200 kg (Low), 100 kg (High), (25 A)	
Winch Speed (With 100 kg Load)	6 m/min (19 ft/min) (Low) 13 m/min (42 ft/min) (High)		23 m/min (75 ft/min)	20 m/min (65 ft/min) (Low) 33 m/min (108 ft/min) (High)		15 m/min (49 ft/min) (Low) 25 m/min (82 ft/min) (High)	
Standard Accessories	1 Cable Gland for Ship, 1 Waterproofing Plate, 1 Vertical Type Main Body Packing, 5 Crimping Terminals, 1 Connection Terminal						
Gross Weight	20 kg	15 kg	14.5 kg	24 kg	21 kg	24 kg	21 kg
Dimensions LxWxH (mm)	478x245x285	570x250x285	478x245x285	478x245x285	570x250x285	478x245x285	570x250x285
Packing Unit	1						

Effective Electromagnetic Brake Model

- Motor case is made of corrosion resistance aluminum alloy to withstand seawater.
- Possible to stop instantly.

Applications

- Winding anchor for boats
- Drawing fishing net
- Towing line
- Winding up basket



REL-5524LB



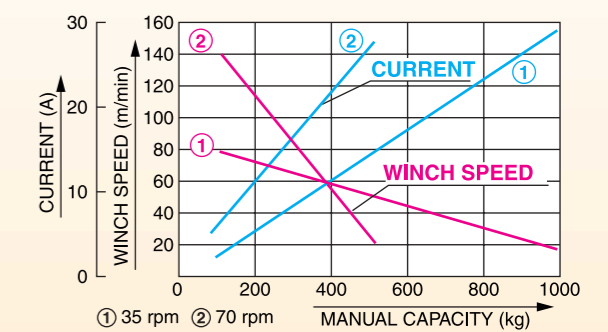
RES-5524LB

Specifications

Model	RES-5524LB	REL-5524LB
Voltage	DC 24 V	
Rated Current	31 A	
Motor Output	550 W	
Rating	1 h / 31 A	
Roller Revolution	35 rpm (Low), 70 rpm (High)	
Manual Capacity	Max. 1000 kg (Low), 500 kg (High), (120 A) Rating 280 kg (Low), 140 kg (High), (31 A)	
Winch Speed (With 100 kg Load)	15 m/min (49 ft/min) (Low) 25 m/min (82 ft/min) (High)	
Electromagnetic Brake	Static Friction Torque	4 N·m
	Rated Voltage	DC 24 V
	Rated Capacity	15 W
Standard Accessories	1 Waterproofing Plate, 1 Vertical Type Main Body Packing, 5 Machine Screws M5x20	
Gross Weight	30 kg	
Dimensions LxWxH (mm)	593 x 330 x 355	
Packing Unit	1	

Performance Curve

• RES-5524LB, REL-5524LB (250 W, 12 V Type)



ECARL BOX Just Changing Box Makes Your ECARL New

Example:
REL+REF



RES-330A
Suitable model:
• All REL model



RES-330B
with 3-button switch
Suitable model:
• All REL model



REF-300
Suitable model:
• REL-2512
• REL-2524
• REL-4024
• REL-4024L



REF-330
Suitable model:
• All REL model



3-button switch
Suitable model:
• RES-330B
• Attached to REF-330

Anchor Winch for Fishing and Leisure Boat

- Easy to winch anchor.
- Changeable button location for more convenience.
- High anti-discoloration with denatured epoxy paint.



RED-2012H



RES-2012H

Compact Built-in Type

- REP type allows work while standing.
- For anchoring, recommend to use anchor davit (optional) together.



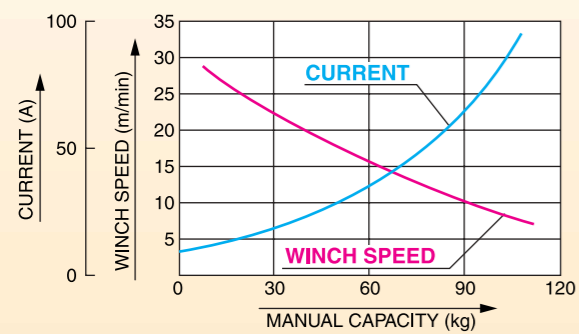
RSB-2012H



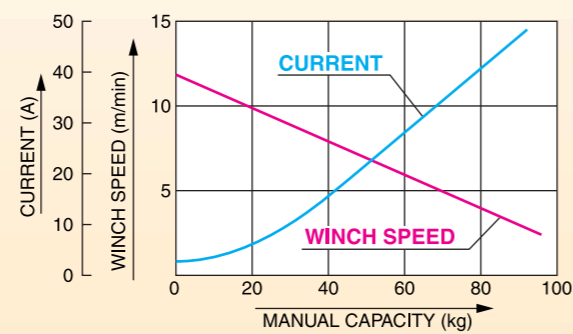
REP-2512H

■ Performance Curve

• RED-2012H, RES-2012H

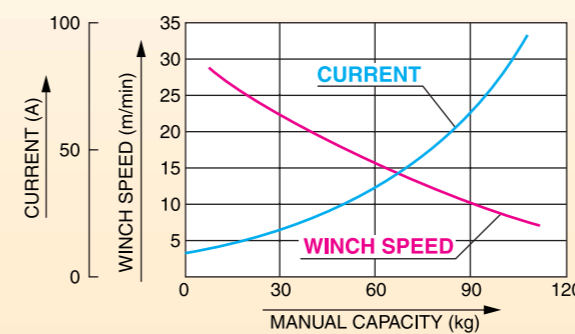


• RED-2012

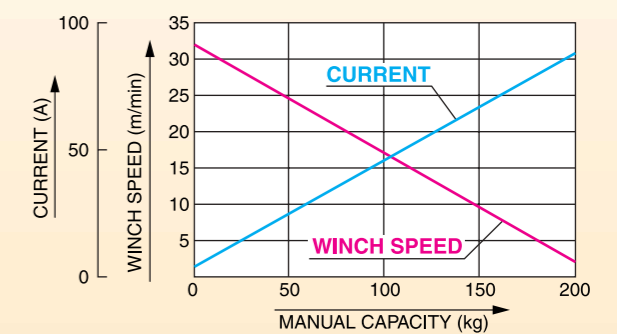


■ Performance Curve

• REP-2012H, RSB-2012H



• REP-2512H, RSB-2512H



■ Specifications

Model	RED-2012H	RES-2012H	RED-2012
Voltage	DC 12 V		
Rated Current	24 A		15 A
Motor Output	200 W		140 W
Rating	1 h / 24 A		1 h / 15 A
Roller Revolution (Max.)	100 rpm		50 rpm
Manual Capacity (Max.)	120 kg (85 A)		100 kg (45 A)
Winch Speed	27 m/min (89 ft/min)		11.5 m/min (38 ft/min)
Breaker	30 A		15 A
Standard Accessories	1 Breaker, 1 Packing,	1 Power cord (5.5 mm ² × 10 m × 2 cores), 2 + Screws (M4 × 8),	2 Nuts (M4), 4 Solderless Terminals
Net Weight	13.5 kg		8.4 kg
Packing Unit	1		

■ Specifications

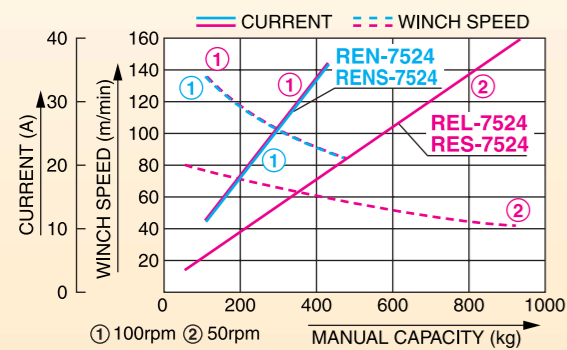
Model	REP-2012H	RSB-2012H	REP-2512H	RSB-2512H
Voltage	DC 12 V			
Rated Current	24 A		30 A	
Motor Output	200 W		250 W	
Rating	1 h / 24 A		1h / 30 A	
Roller Revolution (Max.)	100 rpm		120 rpm	
Manual Capacity (Max.)	120 kg (85 A)		200 kg (110 A)	
Winch Speed	27 m/min (89 ft/min)		32 m/min (105 ft/min)	
Breaker	30 A			
Standard Accessories	1 Breaker, 1 Packing,	1 Power cord (5.5 mm ² × 10 m × 2 cores), 2 + Screws (M4 × 8),	2 Nuts (M4), 4 Solderless Terminals	
Net Weight	14 kg	10.5 kg	15.5 kg	12 kg
Packing Unit	1			

High Speed & High Load Rolling Up Max. Winch Up Power 900 kg

- Use magnet motor. Simple wiring and easy to switch direction between clockwise to counterclockwise.
- Approx. 25 % more power from usual 400 W type by high speed and high load rolling up.
- 2 stage switchable winch capacity (REL, RES).
Switch to 900 kg / 50 rpm and 450 kg / 100 rpm by gearshift.
- Motor case, Roller, etc are made of aluminum alloy.
Light, compact, sea water proof and no rust damage to FRP boat.
- Polyurethane coat protects corrosion perfectly.



Performance Curve



Specifications

Model	REN-7524	RENS-7524	REL-7524	RES-7524
Voltage	DC 24 V			
Rated Current	43 A			
Motor Output	750 W			
Rating	1 h / 43 A			
Roller Revolution	100 rpm	50 rpm (Low), 100 rpm (High)		
Manual Capacity	Max. 450 kg (150 A)	900 kg (Low), 450 kg (High), (150 A)		
Capacity Rating	110 kg (43 A)	220 kg (Low), 110 kg (High), (43 A)		
Winch Speed	33 m/min (108 ft/min)	17 m/min (55 ft/min) (Low), 33 m/min (108 ft/min) (High)		
Standard Accessories (RES, REN Type Only)	1 Cable Gland For Ship, 1 Waterproofing Plate, 1 Vertical Type Main Body Packing, 2 Crimping Terminals,			
Net Weight	20.5 kg	30.5 kg	19.5 kg	24.5 kg
Dimensions LxWxH (mm)	510 x 280 x 290	585 x 315 x 330	520 x 280 x 270	570 x 275 x 285
Packing Unit	1			



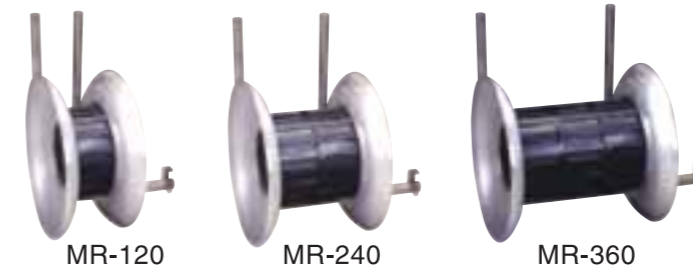
Body : MR-2512
Roller : MR-120

Rolling Up Smoothly Without Damage to Net

- Dual-speed roller revolution (No load) :
20–30 rpm and 40–60 rpm.
- With 2-stage-switch and free revolution (20–60 rpm).
- For use, just connect to battery and after use, easy to take off.
- Roller itself and stand have a handle.
Possible to set roller to any direction.
- Reverse switch makes possible to do wide variety of work.

Rollers (options)

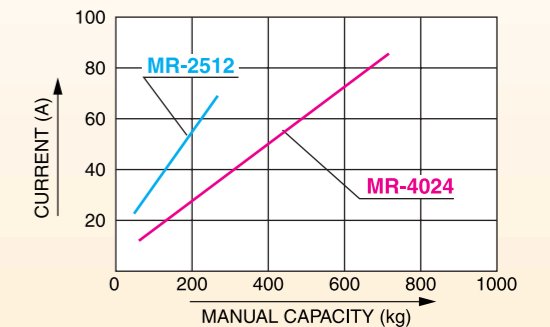
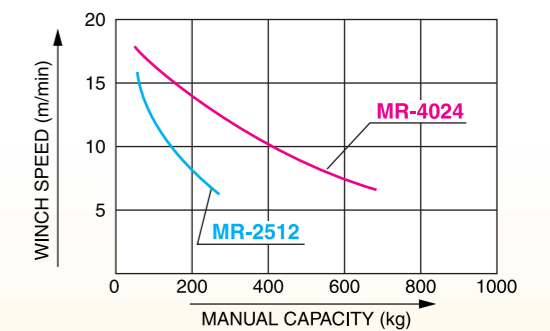
- Roller and guide are set.
- Roller spindle is made of gunmetal, so easy to take off.
- Rubber is made of synthesis rubber to protect from wear and tear.



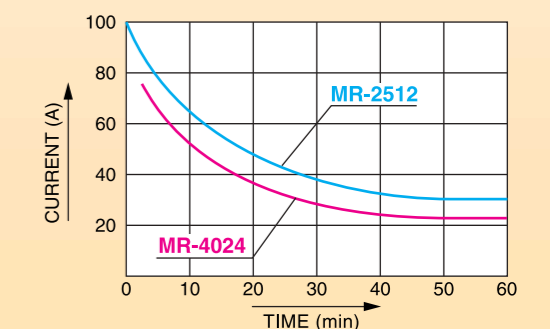
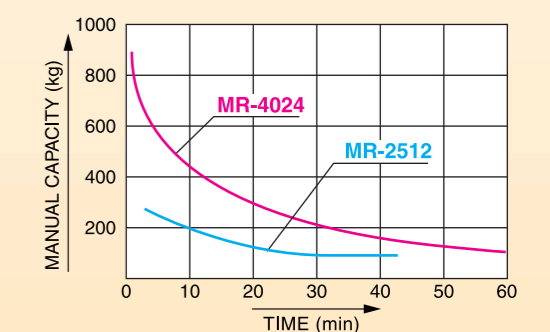
Specifications

Model	MR-2512	MR-4024
Voltage	DC 12 V	DC 24 V
Rated Current	30 A	25 A
Motor Output	250 W	400 W
Rating	1 hr / 30 A	1 hr / 25 A
Roller Revolution (No Load)	20 rpm, Low 40 rpm, High	20 – 30 rpm 40 – 60 rpm
Manual Capacity (2 min)	Max. 20 rpm, Low: 250 kg 40 rpm, High: 125 kg	900 kg 450 kg
Capacity Rating (1 hr)	20 rpm, Low: 80 kg 40 rpm, High: 40 kg	200 kg 100 kg
Winch Speed (100kg Load)	20 rpm, Low: 12 m/min (39 ft/min) 40 rpm, High: 22 m/min (72 ft/min)	16 m/min (52 ft/min) 30 m/min (98 ft/min)
Net Weight	36 kg	38 kg
Dimensions LxWxH (mm)	685 x 588 x 308	
Packing Unit	1	

Performance Curve (20 rpm, Low)



Operation Limit (20 rpm, Low)



*Operate battery winch under the curve of operating limit.