

Magnitude of the electric-assist force

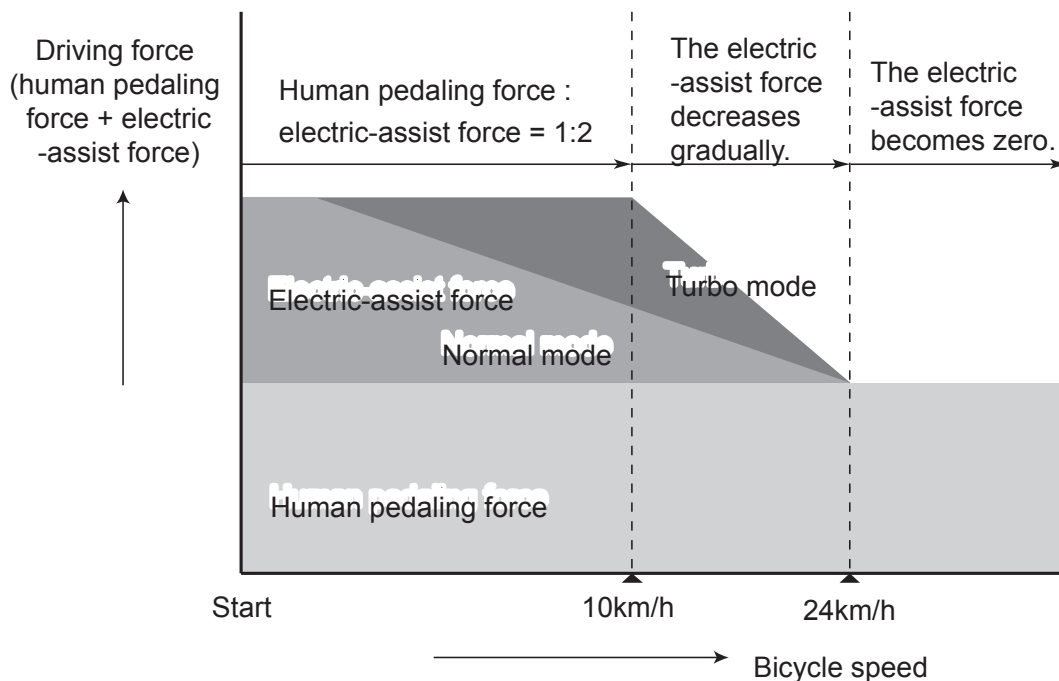
The magnitude of the electric-assist force changes according to the force with which the pedals are pressed and the riding speed. There are three modes for the intelligent bike.

Normal mode Refer to “Riding the intelligent bike” (page 47).

- When starting to ride and the largest assist force is needed, the ratio between pedal force and electric-assist force is 1:1.
- When the riding speed increases, the electric-assist force gradually decreases.
- At speeds of 24 km/h or more, the electric-assist force becomes zero.

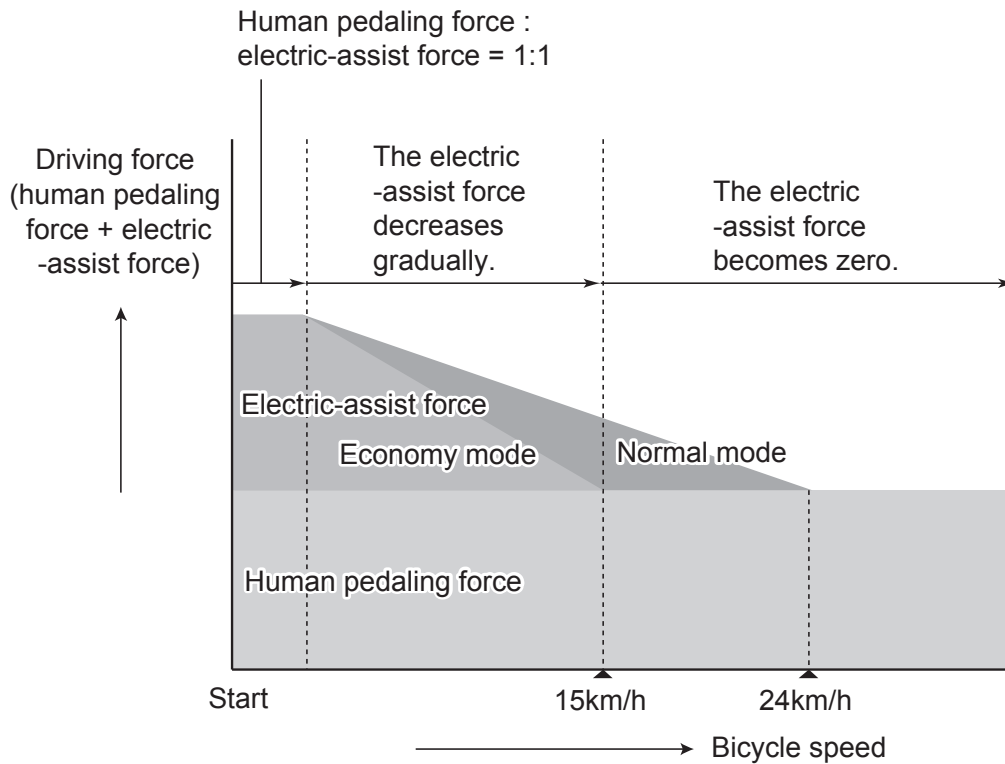
Turbo mode Refer to “Riding with increased power” (page 49).

- From 0 to 10 km/h, the ratio between pedal force and electric-assist force is 1:2.
- When the riding speed increases in the range from 10 to below 24 km/h, the electric-assist force gradually decreases.
- At speeds of 24 km/h or more, the electric-assist force becomes zero.



Economy mode Refer to “Riding while conserving battery power” (page 50).

- When starting to ride and the largest assist force is needed, the ratio between pedal force and electric-assist force is 1:1.
- When the riding speed increases, the electric-assist force gradually decreases.
- At speeds of 15 km/h or more, the electric-assist force becomes zero.



Product specifications

With Turbo unit functioning	Assistance with pedal force and Turbo-unit force equal	0 km/h to below 15 km/h
	Reduced assistance	15 km/h to below 24 km/h
Drive method		Front sprocket gear drive
Assist-force control method		Control proportional to the pedal force
Type of motor		DC brushless motor
Motor output		250 W
Motor unit	Weight	3.2 kg
	Ambient temperature for use	0°C to 40°C
	Ambient temperature for storage	-5°C to 60°C
Battery	Type	Rechargeable lithium ion battery
	Rated output voltage	DC25.2 V
	Capacity	63.9 Wh
	Weight	890 g
	Ambient temperature for use	0°C to 45°C
	Ambient temperature for storage	-20°C to 20°C
Battery charger	Type	Switching regulator
	Power supply	AC 100 to 240 V, 50/60 Hz
	Power consumption	64 W
	Rated output voltage	DC29 V, 1.75 A
	Weight	333 g (power cable not included)
	Ambient temperature for use	0°C to 45°C
	Ambient temperature for storage	-20°C to 60°C

Reference

Home Page : <http://www.sunstar-engineering.com>

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Intelligent bike

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