

Product model		SFL-300L
Basic parameters	Product name	Laser SLAM Single Fork Autonomous Forklift
	Operation type	Automatic navigation
	Navigation type	Laser SLAM
	Pallet type	Tote dolly / shelf
	Rated load capacity	300 kg
	Load centre distance	345 mm
	Weight (with battery)	210 kg
	Standard lifting height	70±5 mm-90±5 mm
	Forklift dimensions: L x W x H	914 x 400 x 1502.5 mm
	Fork dimensions: L x W x H	480 x 300 mm
	Fork outer width	300 mm
	Right-angle stacking aisle width, pallet 1000x1200 (1200 placed along the fork)	1989 mm
	Minimum turning radius	600 mm
	Ambient temperature and humidity range	TEMP: 0°C to 50°C / RH: 10% to 90%, no compression, no condensation
Performance parameters	Driving speed: full load / no load	0.8 / 1.4 m/s
	Passability (slope / step / gap)	< 3% / 2 mm / 5 mm
	Navigation position accuracy	±10 mm
	Navigation angle accuracy	±1°
Battery parameters	Battery specifications	48 V / 35 Ah (ternary lithium)
	Comprehensive battery life	8 h
	Charging time (10% to 80%)	≤1.5 h
	Charging method	Manual / Automatic
Function configurations	Lidar number	1 (H1) +2 (C2)
	Wi-Fi roaming	●
	3D obstacle avoidance	○
	Pallet recognition	○
	HMI display	●
Safety configurations	E-stop button	●
	Sound and light indicator	●
	Braking distance: 1 m/s / 1.5 m/s	≤30 cm / ≤50 cm
	360° laser protection	●
	Bumper strip	●
	Fork height protection	●