SANY

SANY Robotics Technology Co., Ltd.
Make Material Handling More Efficient, Greener, and Smarter

SCP80C6

SANY High-voltage Lithium Battery-powered Counterbalanced Forklift



Highlights

Premium Configuration:
- Features a fully enclosed cabin as standard, offering superior comfort, noise insulation, and handling compared to open cabins in competing models.

Powerful Performance:
- Equipped with a high-power motor that delivers dual 20 kW strong power output, outperforming competitors by 20% to meet diverse operational needs.

All-Weather Operation:
- With IP67-rated waterproofing for the triple power system—higher than the IP54 standard of rivals—it operates reliably even in heavy rain, enabling round-the-clock productivity.

Easy Maintenance:
- The tiltable cabin design allows access to any part of the forklift within one minute, significantly streamlining maintenance.

High-Voltage Fast Charging:
- Incorporates a CATL standard battery with compressor water cooling as standard. Supports 1-hour high-voltage fast charging for rapid recharging, ensuring uninterrupted all-day operation.

Smart Features:
- Outperforms rivals in intelligence with a forklift cloud platform, hill start assist, operator posture monitoring, facial recognition, and rearview camera.

Container Operation:
- With an overall height under 2540 mm, it easily accesses containers, greatly expanding operational scenarios.

Extended Endurance:
- Powered by a 100 kWh water-cooled battery, it achieves up to 5 hours of continuous operation—approximately 15% longer runtime than competing models.

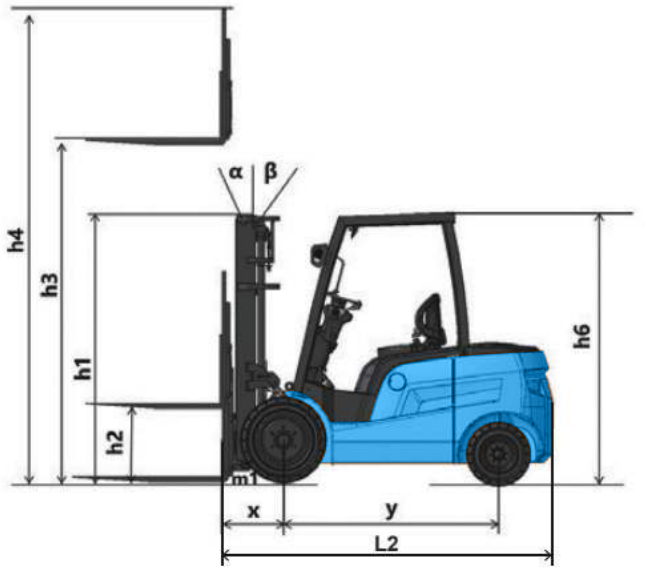
Table of Standard Parameters

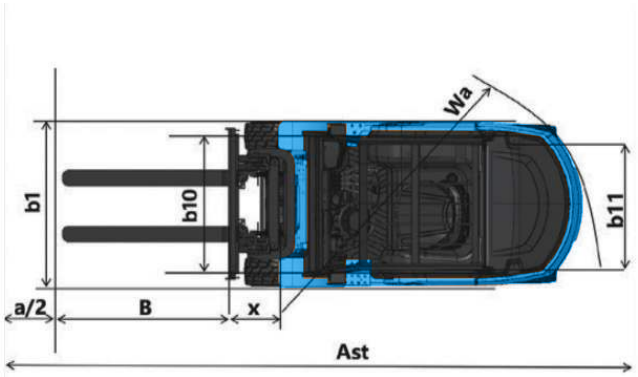
	Category	Unit	SCP80C6
Overview	Rated load capacity	Q(kg)	8000
	Load center distance	c(mm)	600
	Front overhang	x(mm)	633
	Wheel base	y(mm)	2400
Weight	Dead weight	kg	11700
	Axle load front/rear(full load)	kg	16940/2805
	Axle load front/rear(no load)	kg	4600/6960
Tire	Tire type	/	Solid tires
	Front tire specifications	/	8.25-15 （6.5）
	Rear tire specifications	/	8.25-15 （6.5）
	Front wheel track	b10(mm)	1550
	Rear wheel track	b11(mm)	1410
Dimensions	Mast tilt angle (front/rear)	α/ β(°)	6/10
	Height when mast is retracted	h1(mm)	2540
	Free lift height	h2(mm)	0
	Lifting height	h3(mm)	3000
	Max. height when mast is raised	h4(mm)	4450
	Height of overhead guard	h6(mm)	2698
	Overall length(to the front end face of forks)	L2(mm)	3716
	Overall width	b1(mm)	2000
	Fork dimensions (thickness/width/length)	s/e/l(mm)	75/150/1220
	Fork spacing	mm	1690/300
	Min. ground clearance at mast	m1(mm)	200
	Min. ground clearance at wheel base	m2(mm)	200
	Stacking aisle (1m×1.2m)	Ast(mm)	5210
	Stacking aisle (0.8m×1.2m)	Ast(mm)	5410
	Min. turning radius	Wa(mm)	3200
Performance	Max. travel speedccc (full load/no load)	km/h	20/20
	Max. lifting speed (full load/no load)	mm/s	350
	Lowering speed (full load/no load)	mm/s	450
	Traction force (full load/no load)	N	45000
	Gradeability (full load/no load)	%	20
	Service brake	/	Hydraulic
	Parking brake	/	Hydraulic
Motor battery	Travel motor (S2-60min)	kW	65
	Lifting motor (S3-15%)	kW	2x35
	Battery voltage / capacity	V/Ah	386/200
	Battery weight	kg	460
Controller	Travel control mode	-	MOSFET/AC
	Pressure provided by attachment	Mpa	16

Optional

●Standard configuration ○Optional -Not configured

SCP			SCP80C6
Tire		Solid tire	●
		Non-marking tire	○
Seat		Domestic standard seat	–
		Domestic suspension seat	–
		GRAMMER suspension seat	●
Control valve		OPS mechanical valve (2-way)	●
		OPS mechanical valve (3-way)	–
		OPS mechanical valve (4-way)	–
Intelligent terminal		Remote diagnosis function	●
Intelligent speed limit		Intelligent steering deceleration	●
Mast		Standard 2-stage 3 m	●
		Standard 2-stage 3.5 m	○
		Standard 2-stage 4 m	○
		Standard 2-stage 4.5 m	○
		Standard 2-stage 5 m	○
		2-stage free-lift 3 m	○
		3-stage free-lift 4.5 m	○
		3-stage free-lift 5 m	○
		3-stage free-lift 5.5 m	○
		3-stage free-lift 6 m	○
Pipe		Single additional MAST AUXILIARY pipeline (standard mast)	○
		Double additional MAST AUXILIARY pipeline (standard mast)	○
		Single additional MAST AUXILIARY pipeline (2-stage free-lift mast)	○
		Double additional MAST AUXILIARY pipeline (2-stage free-lift mast)	○
		Single additional MAST AUXILIARY pipeline (3-stage free-lift mast)	○
		Double additional MAST AUXILIARY pipeline (3-stage free-lift mast)	○
Fork		No fork	○
		1220mm	●
		1370mm	○
		1520mm	○
		1670mm	○
		1820mm	○
		2000mm	○
		2120mm	○
		2440mm	○
Light		Standard lighting (front and rear combination lamp)	●
		Strobe warning light (yellow)	○
		Strobe warning light (blue)	○
		Rear working light	○
		Blue spot light	○
		Boundary warning light strip (blue)	○
		Boundary warning light strip (red)	○
		旋转声光警示灯（黄色）	○
		雾灯（黄色）	○
Cab		Full can + A/C	●
Battery		77kWh(386V)	●
		100kWh（309V）	○
Charger		60 kW single charger (380 V industrial power)	●
MAST AUXILIARY		External side shifter	○





Ast=a+Wa+x+B a: clearance (200 mm)

Mast parameters

Mast Type	Mast Model	Maximum Lifting Height	SCP80C6				
			Capacity (kg)(Load center 600mm)	Mast full height	Maximum mast operating height	Free Lifting height	Mast sloping angle
			8t		No load backrest/ with load backrest	No load backrest/ with load backrest	Front/rear
		mm	kg	mm	mm	mm	°
Stage II wide-view mast	S30	3000	8000	2530	4080/4450	0	6/10
	S35	3500	8000	2780	4580/4950	0	6/10
	S40	4000	8000	3030	5080/5450	0	6/10
	S45	4500	7200	3380	5630/5950	0	6/6
	S50	5000	6450	3730	6230/6450	0	6/6
Second-stage free-lift mast	D30	3000	8000	2530	4080/4450	1430/1060	6/10
Stage III free-lift mast	T45	4500	6600	2530	5580/5950	1430/1060	6/6
	T48	4800	6000	2630	5880/6250	1530/1160	6/6
	T50	5000	5700	2700	6080/6450	1600/1230	6/6
	T55	5500	4700	2970	6630/6950	1870/1500	3/6
	T60	6000	3400	3240	7230/7450	2140/1770	3/6

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