



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

SCP20C6/SCP25C6
SCP20G/SCP25G

SANY Lithium Battery-powered Counterbalanced Forklift



Choose SANY to Tackle Extreme
Working Conditions



Choose SANY to Embrace
Leading Intelligence



Choose SANY to Experience
International Quality

Main Features



Outstanding Performance

- Perfect integration of new energy vehicle technology with forklifts, fully replacing traditional fuel-powered options;
- Maximum protection with IP67 for core electrical components and IPX4 for the entire forklift;
- Industry-leading "Double 20" performance with a travel speed of 20km/h and a gradeability of 20%.



Safety and Reliability

- Active Safety System: Detect human movement and anticipate hazards with alerts (optional);
- High-precision Facial Recognition System: Prevent fatigue driving (optional).



Enhanced Efficiency

- Self-developed dual-core VCU offers powerful computing capabilities with millisecond response time for superior control
- Fast-charging and high-performance battery can go from 0% to 90% in just 1.5 hours;
- Permanent magnet synchronous electric drive delivers greater power and performance.



Energy Saving and Cost Reduction

- Every 2 SANY electric forklifts are equivalent to 3 fuel-powered forklifts in terms of economic benefits;
- Continuous operation with an 8-hour work cycle, providing 24/7 usage without downtime.



Cloud-Based Support

- Intelligent cloud monitoring allows for fleet management, remote fault diagnosis, etc.



Ultra-long Warranty Period

- Enjoy worry-free usage with an ultra-long warranty period of five years or 10,000 service hours for EIC.

Table of Parameters

Category		Unit	SCP20C6	SCP25C6	SCP20G	SCP25G
Overview	Rated load capacity	Q(kg)	2000	2500	2000	2500
	Load center distance	c(mm)	500	500	500	500
	Front overhang	x(mm)	450	450	460	460
	Wheel base	y(mm)	1650	1650	1650	1650
Weight	Dead weight	kg	3900	3950	3550	3850
	Axle load front/rear (full load)	kg	4950/700	5650/800	4900/650	5600/750
	Axle load front/rear (no load)	kg	1770/1880	1900/2050	1750/1800	1750/2100
Tire	Tire type	/	Solid tires	Solid tires	Solid tires	Solid tires
	Front tire specifications	/	7.00-12	7.00-12	7.00-12	7.00-12
	Rear tire specifications	/	18*7-8	18*7-8	18*7-8	18*7-8
	Front wheel track	b10(mm)	1040	1040	1040	1040
	Rear wheel track	b11(mm)	980	980	980	980
Performance	Max. travel speed (full load/no load)	km/h	16/16	16/16	20/20	20/20
	Max. lifting speed (full load/no load)	mm/s	470/480	470/480	500/550	500/550
	Lowering speed (full load/no load)	mm/s	410/500	410/500	450/460	450/460
	Traction force (full load/no load)	N	13000	13000	15000	15000
	Gradeability (full load/no load)	%	16/20	16/20	20/22	20/22
	Service brake	/	Hydraulic	Hydraulic	Hydraulic	Hydraulic
	Parking brake	/	Mechanical	Mechanical	Mechanical	Mechanical
Dimensions	Mast tilt angle (front/rear)	α/ β(°)	6/12	6/12	6/12	6/12
	Height when mast is retracted	h1(mm)	2000	2000	2160	2160
	Free lift height	h2(mm)	120	120	120	120
	Lifting height	h3(mm)	3000	3000	3000	3000
	Max height when mast is raised	h4(mm)	4100	4100	4100	4100
	Height of overhead guard	h6(mm)	2148	2170	2170	2170
	Overall length (to the front end face of forks)	L2(mm)	2432	2400	2410	2410
	Overall width	b1(mm)	1230	1230	1230	1230
	Fork dimensions (thickness/width/length)	s/e/l(mm)	40*122*1070	40*122*1070	40*122*1070	40*122*1070
	Fork spacing	mm	250-1100	250-1100	250-1100	250-1100
	Min. ground clearance at mast	m1(mm)	100	100	120	120
	Min. ground clearance at wheel base	m2(mm)	130	130	130	130
	Stacking aisle (1m*12m)	Ast(mm)	3930	3930	3940	3940
	Stacking aisle (0.8m*12m)	Ast(mm)	3730	3730	3740	3740
	Min. turning radius	Wa(mm)	2090	2090	2090	2090
Motor battery	Travel motor (S2-60min)	kW	16	16	20	20
	Lifting motor (S3-15%)	kW	21	21	25	25
	Battery voltage / capacity	V/kWh	96/22	96/22	192/19.2	192/19.2
	Battery weight	kg	210	210	190	190
Controller	Travel control mode	-	MOS transistor/AC	MOS transistor/AC	IGBT	IGBT
	Pressure provided by attachment	Mpa	17	17	17	17

SANY Robotics Technology Co., Ltd.

Address: Building 21, East Factory Area, SANY Industrial Park, Changsha County, Changsha City, Hunan Province, China

Hotline: +86-4008-100-318

E-mail: thesq2@sany.com.cn

Website: www.sanyroboticsglobal.com

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