



SANY Robotics Technology Co., Ltd.  
Make material handling more efficient, greener and smarter

# Sany High-Voltage Lithium-Battery Counterbalance Forklift C7 Series

## SCP30C7/SCP35C7



<b>IP67</b> 3-in-1 E-drive system with the highest protection grade Capable of operating in rain, snow and dusty environments	<b>25%</b> Gradeability >25% at full load Much higher than that of competitive products	<b>32Kw</b> Super high drive power Much higher than that of competitive products	<b>Water cooling</b> Standard Water cooling for the 3-in-1 E-drive system Capable of operating at high temperature for a long time
<b>300V</b> Rated voltage Automotive-grade 3-in-1 E-drive system	<b>98% of scenarios</b> Capable of operating at various working conditions Scenario requirements	<b>7-inch large screen</b> Standard intelligent instrument cluster Industrial-grade capacitive touch screen	<b>Industry first</b> The first to apply portal channel steel used for X5t vehicles to 3-3.5t vehicles in China

## Main features

### High safety

- Protection grade: IP67 for the 3-in-1 E-drive system, and IPX4 for the vehicle;
- Safety features: cornering deceleration, anti-rollback, gradient hold control, facial recognition, 360-degree camera system, AI-powered warning light, fully enclosed cab, tilt prevention/tilt collision avoidance and other options.

### High efficiency

- High performance: driving speed of 20km/h, full-load gradeability of 25%, and lifting speed of 440mm/s;
- High-power fast charging: Fully charged in as fast as 1 hour (with 30kW charger);
- Drive system: speed ratio increased by 30% with high climbing power and performance; hub reducer removed for simple axle and high transmission efficiency.

### High reliability

- Mast assembly: traditional clamshell clamp structure and 180 channel steel mast for stable and reliable structure; bores of the lifting cylinder and tilting cylinder increased to reduce system pressure and improve stability;
- Electrical architecture: VCU-platform-based design adopted for robustness and reliability, with high-power permanent magnet synchronous motor, 300V high-voltage platform and standard dual Water cooling;
- Battery system: multi-channel parallel water-cooled battery technology adopted to prolong the battery cell cycle life by 15%.

### High comfort

- Covering part assembly: same covering parts as those of instrument cluster for 30F, with leg space increased by 30%;
- Operating mechanism: same operating mechanism as that of 30F, with hand operation space increased by 25%;
- Intelligent large screen: standard 7-inch industrial-grade intelligent touch display, standard T-BOX, and remote locking;
- Cloud escort: intelligent cloud monitoring and escort for fleet management, remote fault diagnosis, etc.

## Table of Parameters

Class		Unit	Model	
Product model		/	SCP30C7	SCP35C7
Overview	Rated loading capacity	Q(kg)	3000	3500
	Center distance of load	c (mm)	500	500
	Front overhang	x (mm)	510	510
	Wheel base	y (mm)	1750	1750
Weight	Dead weight	kg	5150	5600
	Front and rear axle load (full load)	kg	7335/815	8190/910
	Front and rear axle load (no load)	kg	2315/2835	2520/3080
Tire	Type of tyre	/	Solid tyre	Solid tyre
	Front wheel specification	/	28*9-15	28*9-15
	Rear wheel specification	/	21*8-9	21*8-9
	Front wheel track	b10 (mm)	1020	1020
	Rear wheel track	b11 (mm)	1000	1000
Performance	Maximum driving speed (full load/no load)	km/h	20/20	20/20
	Maximum lifting speed (full load/no load)	mm/s	440/500	440/500
	Lowering speed (full load/no load)	mm/s	420/405	420/405
	Tractive effort (full load/no load)	N	23400	23400
	Gradeability (full load/no load)	%	25	25
	Service brake	/	Hydraulic type	Hydraulic type
	Parking brake	/	Mechanical type	Mechanical type
Controller	Travel control form	-	IGBT	IGBT
	Attachment to provide pressure	Mpa	19.5	19.5

Class		Unit	Model	
Product model		/	SCP30C7	SCP35C7
Dimension	Gantry inclination angle (front/rear)	$\alpha/\beta$ (°)	6/12	6/12
	Height when the gantry is retracted	h1 (mm)	2240	2240
	Height of free lift	h2 (mm)	120	120
	Lifting height	h3 (mm)	3000	3000
	Maximum lifting height of gantry	h4 (mm)	4200	4200
	Height of overhead guard	h6 (mm)	2190	2190
	Overall length (to front end face of fork)	L2 (mm)	2700	2700
	Overall width	b1 (mm)	1250	1250
	Fork size (thickness / width / length)	s/e/l (mm)	50*122*1070	50*122*1070
	Spacing of forks	mm	247-1100	247-1100
	Minimum ground clearance at gantry	m1 (mm)	140	140
	Minimum ground clearance at the center of wheelbase	m2 (mm)	150	150
	Stacking channel (1mx1.2m)	Ast (mm)	4260	4260
	Stacking channel (0.8m x 1.2m)	Ast (mm)	4060	4060
	Minimum turning radius	Wa (mm)	2350	2350
	Motor battery (Inovance)	Travel motor (S2-60min)	kW	32
Lifting motor (S3-15%)		kW	25	25
Battery voltage/power		V/kWh	294.4/29.4	294.4/29.4
Dead weight of battery		kg	250	250
Motor battery (Enpower)	Traveling motor (S2-60min)	kW	29	29
	Lifting motor (S3-15%)	kW	29	29
	Battery voltage/power	V/kWh	294.4/29.4	294.4/29.4
	Dead weight of battery	kg	250	250

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