



N020N2  
N020N2P

N025N2  
N025N2P

N012N2F  
N012N2FP

# ENERGISE YOUR OPERATION

**PRELIMINARY SPECIFICATIONS**

**LOW LEVEL ORDER PICKER 24V, 1.2 - 2.5 TONNES**



# PEAK PRODUCTIVITY AT LOWER HEIGHTS

THE NO\_N2 RANGE OF LOW-LEVEL ORDER PICKERS IS ALL ABOUT MAKING BEST USE OF ENERGY. AS WELL AS DELIVERING THE BEST ENERGY EFFICIENCY IN THE MARKET, ITS DESIGN MAXIMISES YOUR DRIVER'S ENERGY AND TRANSMITS FULL POWER TO YOUR WAREHOUSE OPERATION.



Building on the Responsive Drive System (RDS) technology pioneered in recent Cat electric counterbalance trucks, the order pickers react rapidly to operator steering behaviour and travel speed.

Their unique intelligent curve control constantly adjusts steering sensitivity, cornering speed and turning angle limitation to meet changing needs. The latest generation of controllers and software also optimises acceleration, traction, regenerative braking and other characteristics for smooth, safe, confident and enjoyable driving.

Along with its innovative, adjustable, effortless steering wheel and integrated ergonomic controls, each truck helps energise its user with a triple-suspension floor, comfortable backrest and plenty of unobstructed space.

Easy walk-through access and 'flying start' drive add further time economy, while low power consumption and durable construction reduce operating costs.



## LOWER COST OF OWNERSHIP

- Integrated single-unit motor and gear design adds reliability and delivers the best energy efficiency in the market.
- Simplified one-piece main frame, with welded steel construction, is durable and trouble-free.
- New design for fork carriage, linkages and levers reduces wear and roller damage, and avoids any space-taking linkage protrusion into the operator compartment.
- Forks are wide and reinforced for durability, while the fork carriage's smooth, flat front face prevents cutting or trapping of goods by sharp edges.
- Simple and quick accessibility of systems and components for checks and servicing minimises downtime and bills.
- Display of service hours and battery status encourages correct maintenance.

## UNMATCHED PRODUCTIVITY

- Unique intelligent curve control reacts rapidly to operator steering behaviour and travel speed – adjusting sensitivity, cornering speed and angle limitation to meet changing needs.
- Steering control characteristics are modified when reversing, to allow for driver's sideways position and one-handed operation.
- Advanced traction control ensures smooth, rapid acceleration and prevents wheelspin and related wear when driving on slippery surfaces or carrying heavy loads.
- Deceleration rate and stopping distance are easy to control and predict, for perfect positioning, and are programmable using TruckTool.
- ECO and PRO driving modes can be chosen according to the operator and application, and customised settings can be applied to meet more specific requirements.
- Walk-by-side operation can be controlled via the steering wheel, with angles limited for safety, to improve view of fork ends (optional side-mounted controls are available).
- 'Flying start' function allows operator to begin acceleration from walk-beside position, before stepping onto the presence-detecting floor mat, for quicker access to drive.
- Spacious and unobstructed operator compartment, with non-slip mat, low step height and no tripping hazards, ensures quick walkthrough access.
- Bevelled fork tips and tandem load wheels enable rapid pallet and picking cage entry with less chance of damage.
- Class-leading fork lift height (up to 220 mm even in lowest-lifting models) enhances ground clearance of pallets and picking cages, for fast, safe handling on loading docks and ramps.
- Range includes a variety of rising fork (F) and rising operator platform (P) models for different applications.

## SAFETY AND ERGONOMICS

- High-comfort, triple-suspension floor offers floating structure to dampen shocks and vibrations, sideways dampening to relax knees and ankles, and thick state-of-the-art matting to reduce microvibration.
- Angled footrest minimises strain for seated (see options) and tall operators.
- Optimised backrest shape and height give maximum walk-through access width at hip level, easy passage for operators carrying goods, and a secure leaning position during turns.
- Innovative steering wheel, with vibration damping, is effortless to operate with either hand and can be adjusted for height and angle to maximise comfort.
- Ergonomically shaped accelerator triggers and other controls, integrated into steering wheel, are easily reached by operator without releasing grip.
- Top-of-steering-wheel hand positioning choice enables comfortable and controlled reversing with reduced twisting of shoulders and wrists.
- Regenerative braking, optimised to eliminate swaying effect at full stop, combines with hill hold function and anti-lock brakes to aid smooth operation, confidence and safety in all conditions.
- Storage space for operator equipment is provided in a rear compartment and in trays at the front (optional).



# STANDARD EQUIPMENT AND OPTIONS

	NO20N2	NO20N2P	NO25N2	NO25N2P	NO12N2F	NO12N2FP
<b>GENERAL</b>						
Multifunctional steering wheel (electric 200°)	●	●	●	●	●	●
Power ON/OFF by Key switch	●	●	●	●	●	●
Hour meter & BDI	●	●	●	●	●	●
ECO/PRO mode	●	●	●	●	●	●
Drive speed reduction in curves	●	●	●	●	●	●
Maximum drive speed adjusted according to load weight	●	●	●	●	●	●
Floor mat acting as dead man's pedal	●	●	●	●	●	●
Crane battery change	●	●	●	●	●	●
Polyurethane wheels	●	●	●	●	●	●
Tandem load wheels polyurethane	●	●	●	●	●	●
Suspended operator's platform	●	●	●	●	●	●
Simultaneously driving and lifting of the forks	●	●	●	●	●	●
Hill hold	●	●	●	●	●	●
Automatic parking brake	●	●	●	●	●	●
Lifting driver's platform, h=1000 mm (NO20N2P/25N2P, NO12N2FP)	–	●	–	●	–	●
Lift height (h3 + h13) 220 mm (NO20N2/25N2, NO20N2P/25N2P)	●	●	●	●	–	–
Lift height (h3 + h13) 850 mm (NO12N2F, NO12N2FP)	–	–	–	–	●	●
Lifting driver's platform, h=1000 mm (NO20N2P/25N2P, NO12N2FP)	–	●	–	●	–	●
Simultaneous driving and lifting of the driver's platform	–	●	–	●	–	●
Drive speed reduction when platform raised (4 km/h)	–	●	–	●	–	●
Drive speed reduction when forks raised (lift height > 300 mm)	–	–	–	–	●	●
<b>ENVIRONMENT</b>						
Cold store design, 0C° to -35C°	○	○	○	○	○	○
<b>DRIVE / LIFT CONTROLS</b>						
Walk beside drive button in backrest, FWD/BWD	○	○	○	○	○	○
Buttons for lift/lower on sides of backrest	○	○	○	○	○	○
<b>SAFETY</b>						
Blue point safety light towards driving direction (forks trailing)	○	○	○	○	○	○
Driving light towards driving direction (forks trailing)	○	○	○	○	○	○
Warning strobe, yellow	○	○	○	○	○	○
Drive alarm (programmable)	○	○	○	○	○	○
Fire extinguisher	○	○	○	○	○	○
<b>WHEEL OPTIONS</b>						
Polyurethane traction and load wheels	●	●	●	●	●	●
Power friction traction wheel	○	○	○	○	○	○
<b>COLOUR</b>						
Special RAL colour on front machinery steel cover	○	○	○	○	○	○

● Standard ○ Option

# STANDARD EQUIPMENT AND OPTIONS

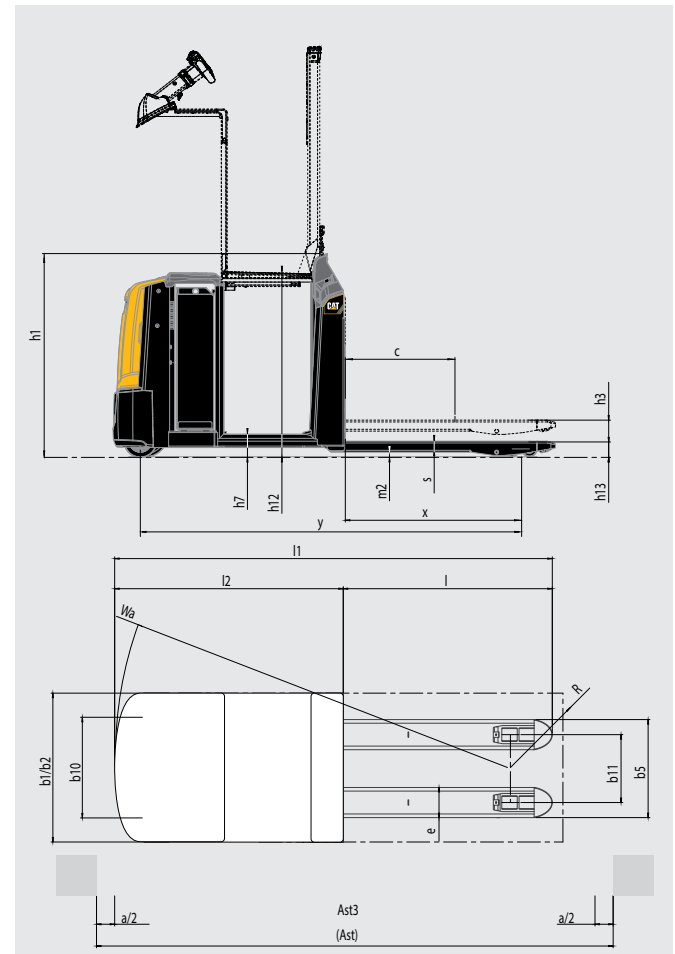
OTHER OPTIONS	NO20N2	NO20N2P	NO25N2	NO25N2P	NO12N2F	NO12N2FP
High drive speed 13 km/h (without load)	○	○	●	●	○	○
PIN code access with BDI display	○	○	○	○	○	○
PIN code access with colour display	○	○	○	○	○	○
Colour display without PIN code access	○	○	○	○	○	○
Walk beside drive button in backrest, FWD/BWD	○	○	○	○	○	○
Buttons for lift/lower on sides of backrest	○	○	○	○	○	○
Accessory rail in front	○	—	○	—	○	—
Picking tray, for NO20/25N2P and NO12N2FP models only. Max. 50 kg	—	○	—	○	—	○
Scanner holder	○	○	○	○	○	○
Equipment holder (RAM mountings)	○	○	○	○	○	○
Wrapping holder	○	○	○	○	○	○
Load backrest	○	○	○	○	○	○
Rear grab handle on backrest	○	—	○	—	—	—
Foot switch for lowering the driver's platform	—	○	—	○	—	○
Sideways battery change	○	○	○	○	○	○
Clipboard, A4	○	○	○	○	○	○
Front storage boxes	○	—	○	—	○	—
Storage folder on bottom of the platform	—	—	○	—	○	—
Entry and exit rollers for crosswise pallet handling	○	○	○	○	—	—
Back cushion, tiltable to seat position for back & feet rest. Adjustable in height.	○	—	○	—	○	—
Power supply, 12 V	○	○	○	○	○	○
Power supply, USB 5 V	○	○	○	○	○	○
Heavy duty front nylon strip covered bumper	○	○	○	○	○	○
Raised front guard plate	○	○	○	○	○	○

● Standard    ○ Option



Characteristics		
1.1	Manufacturer (abbreviation)	
1.2	Manufacturer's model designation	
1.3	Power source: (battery, diesel, LP gas, petrol)	
1.4	Operator type: pedestrian, (operator)-standing, -seated	
1.5	Load capacity	Q (kg)
1.6	At load centre	c (mm)
1.8	Load distance	x (mm)
1.9	Wheelbase	y (mm)
Weight		
2.1	Truck weight with load, with maximum battery weight	kg
2.2	Axle loadings with nominal load & maximum battery weight, drive/load side	kg
2.3	Axle loadings without load & with maximum battery weight, drive/load side	kg
Wheels, Drive Train		
3.1	Tyres: PT=Power Thane, Vul=Vulkollan, drive/load side	
3.2	Tyre dimensions, drive side	(mm)
3.3	Tyre dimensions, load side	(mm)
3.4	Castor wheel dimensions (diameter x width)	(mm)
3.5	Number of wheels, load/drive side (x=driven)	(mm)
3.6	Track width (center of tyres), drive side	b10 (mm)
3.7	Track width (center of tyres), load side	b11 (mm)
Dimensions		
4.2	Height	h1 (mm)
4.4	Lift height	h3 (mm)
4.5	Height with mast extended	h4 (mm)
4.8	Seat- or stand height	h7 (mm)
4.14	Platform height, raised	h12 (mm)
4.15	Fork height, fully lowered	h13 (mm)
4.19	Overall length	l1 (mm)
4.20	Length to fork face	l2 (mm)
4.21	Overall width	b1/b2 (mm)
4.22	Fork dimensions (thickness, width, length)	s / e / l (mm)
4.25	Outside width over forks (minimum/maximum)	b5 (mm)
4.32	Ground clearance at center of wheelbase, (forks lowered)	m2 (mm)
4.34	Working aisle width (Ast) with 800 x1200 mm pallets, load lengthwise	Ast (mm)
4.35	Turning radius	Wa (mm)
Performance		
5.1	Travel speed, with/without load	km/h
5.2	Lifting speed, with/without load	m/s
5.3	Lowering speed, with/without load	m/s
5.7	Gradeability, with/without load	%
5.10	Service brake	
Electric Motors		
6.1	Drive motor capacity (60 min. short duty)	kW
6.2	Lift motor output at 15% duty factor	kW
6.4	Battery voltage/capacity at 5-hour discharge	V /Ah
6.5	Battery weight	kg
6.6	Energy consumption according to EN 16796	kWh/h
Miscellaneous		
8.1	Type of drive control	
10.7	Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871 in work LpAZ	dB(A)
10.7.1	Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871, drive/lift/idle LpAZ	dB(A)
Body	Whole-body vibration (EN 13 059:2002)	
Hand	Hand-arm vibration (EN 13 059:2002)	

Cat Lift Trucks	Cat Lift Trucks
NO20N2	NO20N2P
Battery	Battery
Stand-on	Stand-on
2000	2000
600	600
960	960
2054	2054
3079*	3215*
1082/1997	1130/2085
829/250	913/302
Vul/ Vul	Vul/ Vul
ø250	ø250
ø85	ø85
ø180x65	ø180x65
4/ 1x1	4/ 1x1
494	494
365	365
1173	1394/ 2244
135	135
-	-
123	150
-	1000
85	85
2421	2421
1271	1271
800	800
60/175/900-3600	60/175/900-3600
480/ 660	480/ 660
25	25
2898	2898
2231	2231
9.0/9.0 (opt 9/13)	9.0/9.0 (opt 9/13)
0.04/0.05	0.04/0.05
0.05/0.03	0.05/0.03
Jul-15	Jul-15
Electric	Electric
2.6	2.6
1.2	2.2
24/ 465-620	24/ 465-620
366-493	366-493
0.37	0.37
Stepless	Stepless
62	62
73/62/-	73/62/-
0.6	0.6
<2.5	<2.5



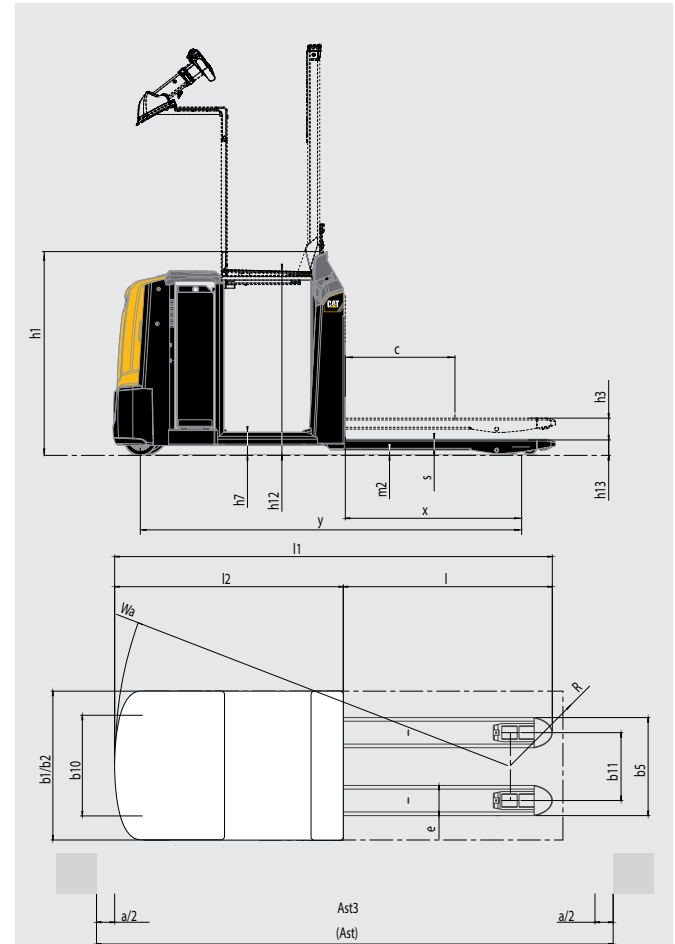
**NO20/25N2: Standard model**  
**(NO20/25N2P: With rising platform)**

Ast = Wa-x+l6+200  
Ast = Working aisle width  
Wa = Turning radius

\* Forks 540x1150, battery 620Ah    \*\* Forks 540x1150/ lift 1200mm, battery 620Ah    \*\*\* Inaccuracy of 4 dB(A)

Characteristics		
1.1	Manufacturer (abbreviation)	
1.2	Manufacturer's model designation	
1.3	Power source: (battery, diesel, LP gas, petrol)	
1.4	Operator type: pedestrian, (operator)-standing, -seated	
1.5	Load capacity	Q (kg)
1.6	At load centre	c (mm)
1.8	Load distance	x (mm)
1.9	Wheelbase	y (mm)
Weight		
2.1	Truck weight with load, with maximum battery weight	kg
2.2	Axle loadings with nominal load & maximum battery weight, drive/load side	kg
2.3	Axle loadings without load & with maximum battery weight, drive/load side	kg
Wheels, Drive Train		
3.1	Tyres: PT=Power Thane, Vul=Vulkollan, drive/load side	
3.2	Tyre dimensions, drive side	(mm)
3.3	Tyre dimensions, load side	(mm)
3.4	Castor wheel dimensions (diameter x width)	(mm)
3.5	Number of wheels, load/drive side (x=driven)	(mm)
3.6	Track width (center of tyres), drive side	b10 (mm)
3.7	Track width (center of tyres), load side	b11 (mm)
Dimensions		
4.2	Height	h1 (mm)
4.4	Lift height	h3 (mm)
4.5	Height with mast extended	h4 (mm)
4.8	Seat- or stand height	h7 (mm)
4.14	Platform height, raised	h12 (mm)
4.15	Fork height, fully lowered	h13 (mm)
4.19	Overall length	l1 (mm)
4.20	Length to fork face	l2 (mm)
4.21	Overall width	b1/b2 (mm)
4.22	Fork dimensions (thickness, width, length)	s / e / l (mm)
4.25	Outside width over forks (minimum/maximum)	b5 (mm)
4.32	Ground clearance at center of wheelbase, (forks lowered)	m2 (mm)
4.34	Working aisle width (Ast) with 800 x1200 mm pallets, load lengthwise	Ast (mm)
4.35	Turning radius	Wa (mm)
Performance		
5.1	Travel speed, with/without load	km/h
5.2	Lifting speed, with/without load	m/s
5.3	Lowering speed, with/without load	m/s
5.7	Gradeability, with/without load	%
5.10	Service brake	
Electric Motors		
6.1	Drive motor capacity (60 min. short duty)	kW
6.2	Lift motor output at 15% duty factor	kW
6.4	Battery voltage/capacity at 5-hour discharge	V /Ah
6.5	Battery weight	kg
6.6	Energy consumption according to EN 16796	kWh/h
Miscellaneous		
8.1	Type of drive control	
10.7	Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871 in work LpAZ	dB(A)
10.7.1	Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871, drive/lift/idle LpAZ	dB(A)
Body	Whole-body vibration (EN 13 059:2002)	
Hand	Hand-arm vibration ( EN 13 059:2002)	

Cat Lift Trucks	Cat Lift Trucks
NO25N2	NO25N2P
Battery	Battery
Stand-on	Stand-on
2500	2500
600	600
960	960
2054	2054
3579*	3715*
1178/2401	1223/2492
829/250	913/302
Vul/ Vul	Vul/ Vul
ø250	ø250
ø85	ø85
ø180x65	ø180x65
4/ 1x1	4/ 1x1
494	494
365	365
1173	1394/ 2244
135	135
-	-
123	150
-	1000
85	85
2421	2421
1271	1271
800	800
60/175/900-3600	60/175/900-3600
480/ 660	480/ 660
25	25
2898	2898
2231	2231
9.0/13.0	9.0/13.0
0.03/0.05	0.03/0.05
0.05/0.03	0.05/0.03
Jul-15	Jul-15
Electric	Electric
2.6	2.6
1.2	2.2
24/ 465-620	24/ 465-620
366-493	366-493
0.4	0.4
Stepless	Stepless
62	62
73/62/-	73/62/-
0.6	0.6
<2.5	<2.5



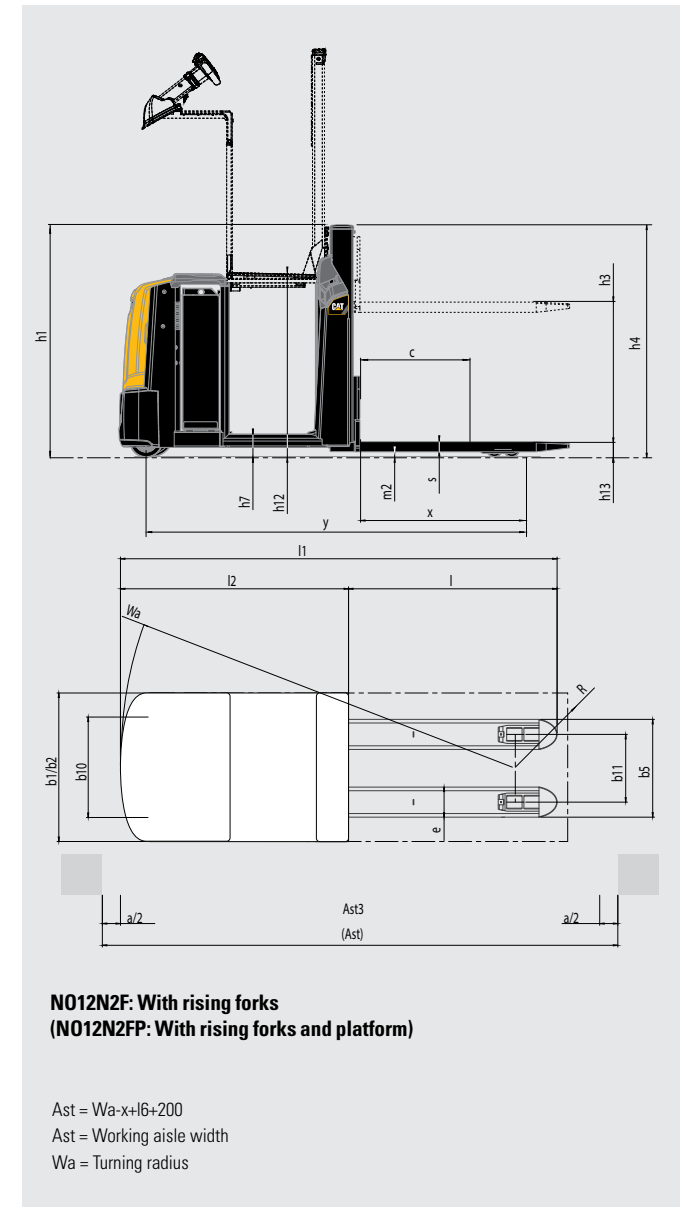
**NO20/25N2: Standard model**  
**(NO20/25N2P: With rising platform)**

Ast = Wa-x+l6+200  
 Ast = Working aisle width  
 Wa = Turning radius

\* Forks 540x1150, battery 620Ah    \*\* Forks 540x1150/ lift 1200mm, battery 620Ah    \*\*\* Inaccuracy of 4 dB(A)

Characteristics		
1.1	Manufacturer (abbreviation)	
1.2	Manufacturer's model designation	
1.3	Power source: (battery, diesel, LP gas, petrol)	
1.4	Operator type: pedestrian, (operator)-standing, -seated	
1.5	Load capacity	Q (kg)
1.6	At load centre	c (mm)
1.8	Load distance	x (mm)
1.9	Wheelbase	y (mm)
Weight		
2.1	Truck weight with load, with maximum battery weight	kg
2.2	Axle loadings with nominal load & maximum battery weight, drive/load side	kg
2.3	Axle loadings without load & with maximum battery weight, drive/load side	kg
Wheels, Drive Train		
3.1	Tyres: PT=Power Thane, Vul=Vulkollan, drive/load side	
3.2	Tyre dimensions, drive side	(mm)
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3.4	Castor wheel dimensions (diameter x width)	(mm)
3.5	Number of wheels, load/drive side (x=driven)	(mm)
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3.7	Track width (center of tyres), load side	b11 (mm)
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4.4	Lift height	h3 (mm)
4.5	Height with mast extended	h4 (mm)
4.8	Seat- or stand height	h7 (mm)
4.14	Platform height, raised	h12 (mm)
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4.32	Ground clearance at center of wheelbase, (forks lowered)	m2 (mm)
4.34	Working aisle width (Ast) with 800 x1200 mm pallets, load lengthwise	Ast (mm)
4.35	Turning radius	Wa (mm)
Performance		
5.1	Travel speed, with/without load	km/h
5.2	Lifting speed, with/without load	m/s
5.3	Lowering speed, with/without load	m/s
5.7	Gradeability, with/without load	%
5.10	Service brake	
Electric Motors		
6.1	Drive motor capacity (60 min. short duty)	kW
6.2	Lift motor output at 15% duty factor	kW
6.4	Battery voltage/capacity at 5-hour discharge	V /Ah
6.5	Battery weight	kg
6.6	Energy consumption according to EN 16796	kWh/h
Miscellaneous		
8.1	Type of drive control	
10.7	Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871 in work LpAZ	dB(A)
10.7.1	Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871, drive/lift/idle LpAZ	dB(A)
Body	Whole-body vibration (EN 13 059:2002)	
Hand	Hand-arm vibration (EN 13 059:2002)	

	Cat Lift Trucks <b>N012N2F</b>	Cat Lift Trucks <b>N012N2FP</b>
	Battery	Battery
	Stand-on	Stand-on
	1200	1200
	600	600
	785	785
	1929	1929
	2420**	2556**
	972/1448	1059/1497
	853/367	940/416
	Vul/ Vul	Vul/ Vul
	ø250	ø250
	ø85	ø85
	ø180x65	ø180x65
	4/ 1x1	4/ 1x1
	494	494
	355	355
	1173	1394/ 2244
	765/ 1115	765/ 1115
	1275/ 1625	1275/ 1625
	123	150
	-	1000
	85	85
	2471	2471
	1321	1321
	800	800
	56/186/950-1450	56/186/950-1450
	540/ 570	540/ 570
	25	25
	2881	2881
	2106	2106
	9.0/9.0 (opt 9/13)	9.0/9.0 (opt 9/13)
	0.20/0.41	0.20/0.41
	0.30/0.36	0.30/0.36
	Jul-15	Jul-15
	Electric	Electric
	2.6	2.6
	2.2	2.2
	24/ 465-620	24/ 465-620
	366-493	366-493
	0.37	0.37
	Stepless	Stepless
	62	62
	73/62/-	73/62/-
	0.6	0.6
	<2.5	<2.5



\* Forks 540x1150, battery 620Ah \*\* Forks 540x1150/ lift 1200mm, battery 620Ah \*\*\* Inaccuracy of 4 dB(A)

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NOTE: Performance specifications may vary depending on standard manufacturing tolerances, vehicle condition, types of tyres, floor or surface conditions, applications, or operating environment. Trucks may be shown with non-standard options. Specific performance requirements and locally available configurations should be discussed with your Cat lift trucks Dealer. Cat Lift Trucks follows a policy of continual product improvement. For this reason, some materials, options and specifications could change without notice.



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