

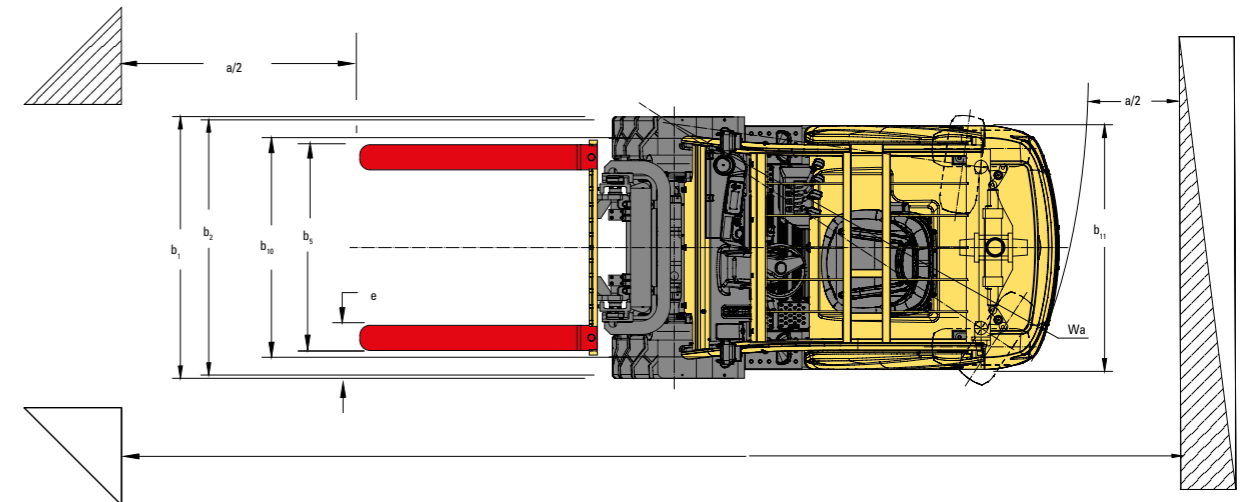
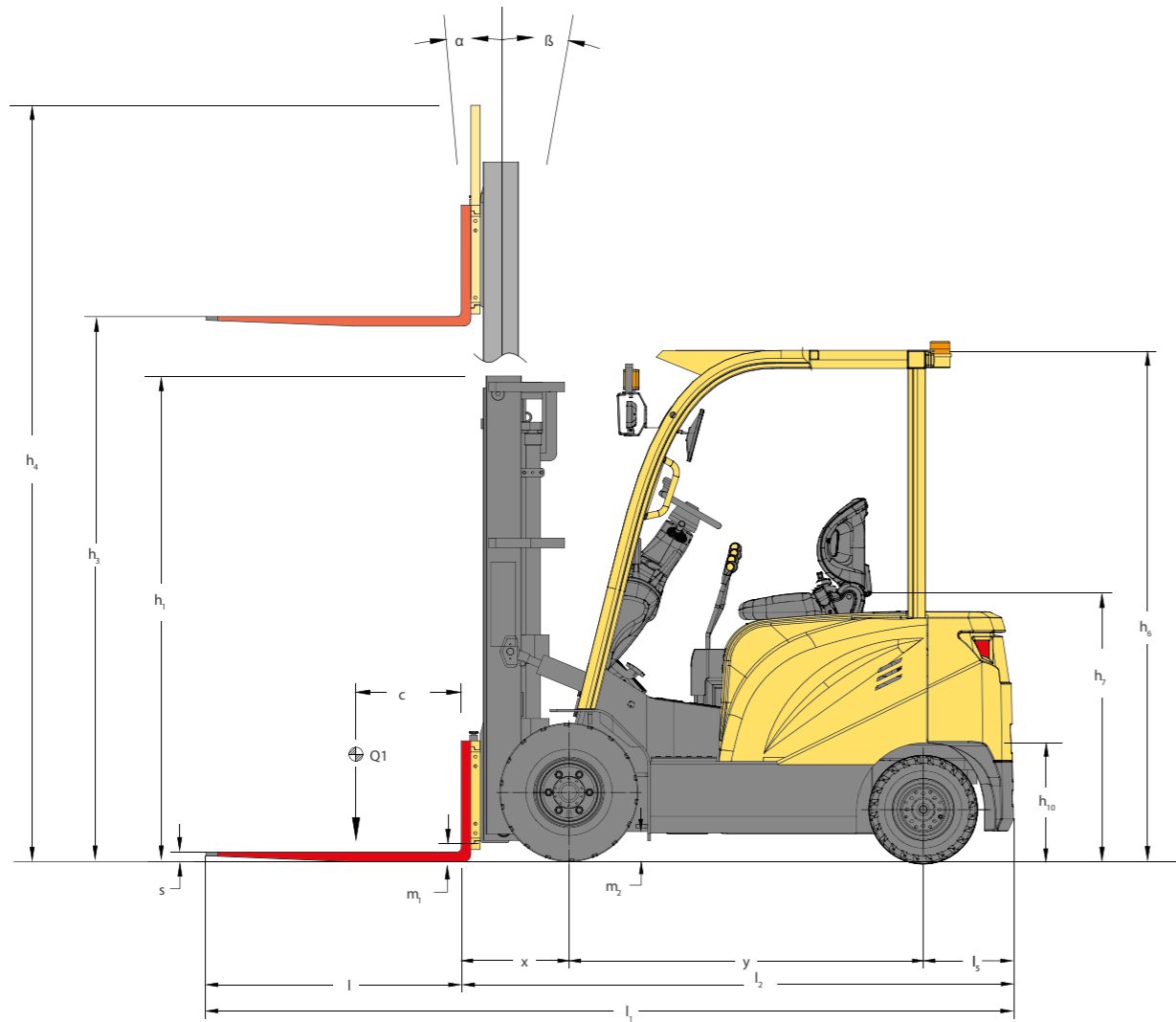
J1.5-3.5UT J1.5-3.5UTL SERIES



ELECTRIC FORKLIFT TRUCKS
PRODUCT TECHNICAL GUIDE



WWW.HYSTER.COM



J1.5-2.OUT/J1.5-2.OUTL SPECIFICATIONS

J2.5-3.5UT/J2.5-3.5UTL SPECIFICATIONS

GENERAL	1-1	Manufacturer		HYSTER			
	1-2	Model designation		J1.5UT (L)	J1.8UT (L)	J2.0UT (L)	
WEIGHT	1-3	Drive		Electric (battery)			
	1-4	Operator type		Seated			
WHEELS	1-5	Rated capacity/rated load	Q ₁	t	1500	1800	2000
	1-6	Load centre distance	c	mm	500	50	500
	1-8	Load distance, centre of drive axle to fork	x	mm	410		454
	1-9	Wheelbase	y	mm	1380		1485
	2-1	Service weight		kg	3030	3310	4040
DIMENSIONS	2-2	Axle loading with load, front / rear		kg	3940	590	4594
	2-3	Axle loading without load, front / rear		kg	1490	1590	1431
PERFORMANCE	3-1	Tyres, front / rear			Superelastic		
	3-2	Tyre size, front			6.00-9	21x8-9	23x9-10
	3-3	Tyre size, front			5.00-8		18x7-8
	3-5	Wheels, number front / rear (x = driven wheels)			2x / 2		
	3-6	Tread, front	b ₁₀	mm	955		1058
	3-7	Tread, rear	b ₁₁	mm	920		960
	4-1	Tilt of mast / fork carriage forward / backward		(°)	5 / 10		
	4-2	Height, mast lowered	h ₁	mm	2000		2015
	4-3	Free lift (1)	h ₂	mm	135		140
	4-4	Lift	h ₃	mm	3000		
MOTOR	4-5	Height, mast extended (3)	h ₄	mm	3980		
	4-7	Height of overhead guard (cabin) (4)	h ₆	mm	2155	2152	
	4-8	Seat height relating to SIP (2)	h ₇	mm	1080		
	4-12	Coupling height	h ₁₀	mm	290	250	
	4-19	Overall length	l ₁	mm	3026	3372	
	4-20	Length to face of forks	l ₂	mm	2106	2302	
	4-21	Overall width	b ₁ /b ₂	mm	1120	1285	
	4-22	Fork dimensions DIN ISO 2331	s/e/l	mm	35 / 100 / 920		40 / 122 / 1070
	4-23	Fork carriage ISO 2328, class/type A, B		mm	2A		
	4-24	Fork carriage width (3)	b ₃	mm	1040		
OTHER	4-25	Distance between fork-arms	b ₅	mm	200 / 890	25 / 1000	
	4-31	Ground clearance, laden, below mast	m ₁	mm	95		
	4-32	Ground clearance, centre of wheelbase	m ₂	mm	105		
	4-34-1	Aisle width for pallets 1000 x 1200 crossways	Ast	mm	3580	3879	
	4-34-4	Aisle width for pallets 800 x 1200 lengthways	Ast	mm	3780	4009	
	4-35	Turning radius	W _a	mm	1970	2155	
	4-36	Internal turning radius	b ₁₃	mm	703	599	
	5-1	Travel speed with / without load	km	h	15.0 / 15.7	14.8 / 15.7	15.7 / 15.7
	5-2	Lifting speed with / without load	mm	s	370 / 512	315 / 512	333 / 500
	5-3	Lowering speed with / without load	mm	s	400 / 502	390 / 502	434 / 415
5-6	Max. drawbar pull with / without load, 3 minute rating	N		10,800 / 8700	10,800 / 8700	14,400 / 10,500	
5-7	Max. gradeability with / without load, 3 minute rating	%		16 / 23	15 / 22	20 / 23	
5-9	Acceleration time, with / without load	s		5.12 / 4.75	5.25 / 4.75	5.20 / 4.78	
5-10	Service brake			Hydraulic			
MOTOR	6-1	Drive motor rating S2 60 min	kW		6.5	8.5	
	6-2	Lift motor rating at S3 15% rating	kW		8.6	11.0	
	6-3	Battery according to DIN 43531/35/36 A, B, C, no	m	s	no		
	6-4-1	Battery voltage/nominal capacity K5 (Lead acid)	V	Ah	48 / 420	48 / 600	
	6-4-2	Battery voltage/nominal capacity K5 (Lithium ion)	V	Ah	51.2 / 250-375-500		
	6-5	Battery weight	kg		720	970	
	6-5-1	Battery compartment dimensions	l/w/h	mm	993 / 478 / 795		1041 / 510 / 785
	6-6	Power consumption in accordance with VDI cycle	kWh	h	4.15	4.35	4.95
	8-1	Type of drive unit			AC / Curtis		
	10-1	Operating pressure for attachments (5)	bar		138	180	
OTHER	10-3	Oil volume for attachments	l	min	38		
	10-4	Sound pressure level at the driver's seat L _{PAZ} (6)	dB	A	70.4	67.9	
	10-5	Towing coupling, type DIN			Yes / Pin		

(1) Bottom of forks
 (2) Full suspension seat in depressed position.
 (3) Without load backrest
 (4) h6 subject to +/- 5 mm tolerance.
 (5) Variable
 (6) LPAZ, measured according to the test cycles and based on the weighting values contained in EN12053.
 All values are nominal values and they are subject to tolerances

GENERAL	1-1	Manufacturer		HYSTER			
	1-2	Model designation		J2.5UT (L)	J3.0UT (L)	J3.5UT (L)	
WEIGHT	1-3	Drive		Electric (battery)			
	1-4	Operator type		Seated			
WHEELS	1-5	Rated capacity/rated load	Q ₁	t	2500	3000	3500
	1-6	Load centre distance	c	mm	500		
	1-8	Load distance, centre of drive axle to fork	x	mm	454	475	495.5
	1-9	Wheelbase	y	mm	1485	1670	1690
	2-1	Service weight		kg	4226	4910	5310
DIMENSIONS	2-2	Axle loading with load, front / rear		kg	5720	1006	6830
	2-3	Axle loading without load, front / rear		kg	1748	2478	2220
PERFORMANCE	3-1	Tyres, front / rear			Superelastic		
	3-2	Tyre size, front			23x9-10		23x10-12
	3-3	Tyre size, front			18x7-8		200/50-10
	3-5	Wheels, number front / rear (x = driven wheels)			2x / 2		
	3-6	Tread, front	b ₁₀	mm	1058	1065	1124
	3-7	Tread, rear	b ₁₁	mm	960	980	1010
	4-1	Tilt of mast / fork carriage forward / backward		(°)	5 / 10		
	4-2	Height, mast lowered	h ₁	mm	2015	2045	2120
	4-3	Free lift (1)	h ₂	mm	140	165	
	4-4	Lift	h ₃	mm	3000		
MOTOR	4-5	Height, mast extended (3)	h ₄	mm	3980		
	4-7	Height of overhead guard (cabin) (4)	h ₆	mm	2152	2138	
	4-8	Seat height relating to SIP (2)	h ₇	mm	1080		
	4-12	Coupling height	h ₁₀	mm	250	270	
	4-19	Overall length	l ₁	mm	3387	3614	3759
	4-20	Length to face of forks	l ₂	mm	2317	2544	2689
	4-21	Overall width	b ₁ /b ₂	mm	1285	1285	1365
	4-22	Fork dimensions DIN ISO 2331	s/e/l	mm	40 / 122 / 1070	45 / 122 / 1070	50 / 122 / 1070
	4-23	Fork carriage ISO 2328, class/type A, B		mm	2A	3A	
	4-24	Fork carriage width (3)	b ₃	mm	1040	1100	
OTHER	4-25	Distance between fork-arms	b ₅	mm	250 / 1000	290 / 1060	
	4-31	Ground clearance, laden, below mast	m ₁	mm	95	65	80
	4-32	Ground clearance, centre of wheelbase	m ₂	mm	95	110	83
	4-34-1	Aisle width for pallets 1000 x 1200 crossways	Ast	mm	3879	4025	4101
	4-34-4	Aisle width for pallets 800 x 1200 lengthways	Ast	mm	4009	4225	4301
	4-35	Turning radius	W _a	mm	2155	2349	2405
	4-36	Internal turning radius	b ₁₃	mm	599	830	815
	5-1	Travel speed with / without load	km	h	14.9 / 15.7	15.0 / 16.0	
	5-2	Lifting speed with / without load	mm	s	307 / 500	385 / 500	282 / 500
	5-3	Lowering speed with / without load	mm	s	405 / 415	420 / 475	400 / 355
5-6	Max. drawbar pull with / without load, 3 minute rating	N		14,400 / 10,500	21,000 / 11,500	21,000 / 11,500	
5-7	Max. gradeability with / without load, 3 minute rating	%		18.0 / 22.0	20.0 / 23.0	15.0 / 22.0	
5-9	Acceleration time, with / without load	s		5.25 / 4.78	5.05 / 4.86	5.62 / 5.32	
5-10	Service brake			Hydraulic			
MOTOR	6-1	Drive motor rating S2 60 min	kW		8.5	11.5	
	6-2	Lift motor rating at S3 15% rating	kW		11.0	15.0	
	6-3	Battery according to DIN 43531/35/36 A, B, C, no	m	s	no		
	6-4-1	Battery voltage/nominal capacity K5 (Lead acid)	V	Ah	48 / 600	80 / 500	
	6-4-2	Battery voltage/nominal capacity K5 (Lithium ion)	V	Ah	51.2 / 250-375-500	77.6 / 250-375-500	
	6-5	Battery weight	kg		970	1422	
	6-5-1	Battery compartment dimensions	l/w/h	mm	1041 / 510 / 785	1041 / 684 / 785	
	6-6	Power consumption in accordance with VDI cycle	kWh	h	6.13	6.32	6.90
	8-1	Type of drive unit			AC / Curtis		
	10-1	Operating pressure for attachments (5)	bar		180		
OTHER	10-3	Oil volume for attachments	l	min	38		
	10-4	Sound pressure level at the driver's seat L _{PAZ} (6)	dB	A	67.9	70.0	
	10-5	Towing coupling, type DIN			Yes / Pin		

(1) Bottom of forks
 (2) Full suspension seat in depressed position.
 (3) Without load backrest
 (4) h6 subject to +/- 5 mm tolerance.
 (5) Variable
 (6) LPAZ, measured according to the test cycles and based on the weighting values contained in EN12053.
 All values are nominal values and they are subject to tolerances

MAST AND CAPACITY INFORMATION

BATTERY INFORMATION

J1.5-1.8UT/J1.5-1.8UTL RATED CAPACITY KG@ 500 MM LOAD CENTRE

	Maximum fork height h ₃ + s (mm)	Mast tilt		Lowered height h ₁ (mm)		Extended height h ₄ (mm) w/ LBR		Extended height h ₄ (mm) w/o LBR		Free lift height h ₂ + s (m) ⁽¹⁾	Load centre 500mm	
		FWD tilt (°)	Back tilt (°)	J1.5UT	J1.8UT	J1.5UT	J1.8UT	J1.5UT	J1.8UT		J1.5UT	J1.8UT
2-STAGE LIMITED FREE LIFT	3300	5	10	2140	2140	4284	4284	3813	3813	135	1500	1800
	3500	5	10	2240	2240	4484	4484	4013	4013	135	1500	1800
	4000	5	10	2540	2540	4984	4984	4513	4513	135	1500	1800
3-STAGE FULL FREE LIFT	4500	5	6	2040	2040	5484	5484	5013	5013	1516	1410	1740
	4800	5	6	2140	2140	5784	5784	5313	5313	1616	1370	1710
	5500	3	6	2405	2405	6484	6484	6013	6013	1886	990	1370
	6000	3	6	2590	2590	6984	6984	6513	6513	2066	760	1080

J2.0-2.5UT/J2.0-2.5UTL RATED CAPACITY KG@ 500 MM LOAD CENTRE

	Maximum fork height h ₃ + s (mm)	Mast tilt		Lowered height h ₁ (mm)		Extended height h ₄ (mm) w/ LBR		Extended height h ₄ (mm) w/o LBR		Free lift height h ₂ + s (m) ⁽¹⁾	Load centre 500mm	
		FWD tilt (°)	Back tilt (°)	J2.0UT	J2.5UT	J2.0UT	J2.5UT	J2.0UT	J2.5UT		J2.0UT	J2.5UT
2-STAGE LIMITED FREE LIFT	3300	5	10	2180	2180	4315	4315	4317	4317	140	2000	2500
	3500	5	10	2280	2280	4515	4515	4517	4517	140	2000	2500
	4000	5	10	2580	2580	5015	5015	5017	5017	140	2000	2500
3-STAGE FULL FREE LIFT	4500	5	6	2090	2090	5515	5515	5115	5115	1440	1910	2400
	4800	5	6	2190	2190	5815	5815	5415	5415	1540	1860	2290
	5500	3	6	2455	2455	6515	6515	6115	6115	1800	1480	1630
	6000	3	6	2640	2640	7015	7015	6615	6615	1990	1150	1230

J3.0UT/J3.0UTL RATED CAPACITY KG@ 500 MM LOAD CENTRE

	Maximum fork height h ₃ + s (mm)	Mast tilt		Lowered height h ₁ (mm)		Extended height h ₄ (mm) w/ LBR		Extended height h ₄ (mm) w/o LBR		Free lift height h ₂ + s (m) ⁽¹⁾	Load centre 500mm	
		FWD tilt (°)	Back tilt (°)	J3.0UT	J3.0UT	J3.0UT	J3.0UT	J3.0UT	J3.0UT			
2-STAGE LIMITED FREE LIFT	3300	5	10	2195	2195	3940	3940	3970	3970	165	3000	3000
	3500	5	10	2295	2295	4140	4140	4170	4170	165	3000	3000
	4000	5	10	2595	2595	4640	4640	4670	4670	165	2960	2960
3-STAGE FULL FREE LIFT	4500	5	6	2095	2095	5640	5640	5225	5225	1390	2860	2860
	4800	5	6	2195	2195	5940	5940	5525	5525	1490	2800	2800
	5500	3	6	2460	2460	6640	6640	6225	6225	2180	2180	2180
	6000	3	6	2645	2645	7140	7140	6725	6725	1590	1590	1590

J3.5UT(L) RATED CAPACITY KG@ 500 MM LOAD CENTRE


	Maximum fork height h ₃ + s (mm)	Mast tilt		Lowered height h ₁ (mm)		Extended height h ₄ (mm) w/ LBR		Extended height h ₄ (mm) w/o LBR		Free lift height h ₂ + s (m) ⁽¹⁾	Load centre 500mm	
		FWD tilt (°)	Back tilt (°)	J3.5UT	J3.5UT	J3.5UT	J3.5UT	J3.5UT	J3.5UT			
2-STAGE LIMITED FREE LIFT	3300	5	10	2270	2270	4440	4440	4040	4040	170	3500	3500
	3500	5	10	2370	2370	4640	4640	4240	4240	170	3500	3500
	4000	5	6	2670	2670	5140	5140	4740	4740	170	3360	3360
3-STAGE FULL FREE LIFT	4500	5	6	2170	2170	5640	5640	5310	5310	1380	3200	3200
	4800	5	6	2270	2270	5940	5940	5610	5610	1480	3110	3110
	5500	3	6	2535	2535	6640	6640	6310	6310	1735	2270	2270
	6000	3	6	2720	2720	7140	7140	6810	6810	1930	1690	1690

NOTES:

Specifications are affected by the condition of the vehicle and how it is equipped, as well as the nature and condition of the operating area. Inform your dealer of the nature and condition of the intended operating area when purchasing your Hyster® truck.

NOTICE:

Care must be exercised when handling elevated loads. Operators must be trained and must read, understand and follow the instructions contained in the Operating Manual. All values are nominal values and they are subject to tolerances. For further information, please contact the manufacturer. Hyster products are subject to change without notice. Lift trucks illustrated may feature optional equipment. Values may vary with alternative configurations. Specification data is based on VDI 2198.

 Safety: This truck conforms to the current EU and ANSI requirements.

LI-ION BATTERY DATA	48 Volt J1.5-1.8UT(L)		
Battery Type	51.2V250AH	51.2V375AH	51.2V500AH
Dimension (L x W x H) (w/o CWT)	mm	754 X 470 X 610	
Weight (w/o CWT)	kg	276	276
Battery Colour	HYG HCE-51 Black		
Nominal Voltage	V	51.2	
Maximum Voltage	V	57.9	
Minimum Voltage	V	40.8	
Nominal Capacity	Ah	250	375
Usable Capacity	Ah	225	356
Energy	kWh	12.8	19.2
Nominal Discharge Current	A	220	300
Maximum Discharge Current -5s	A	400	500
Nominal Charge Current	A	100	150
Maximum Charge Current -5s	A	200	300
Operating Temperature	C	-10° – 45°	-25° – 45°
Charging Temperature	C	0° – 45°	
Power Connector	DIN 160A		
Power Connector Position	Floating on top		
Charge Connector	DIN 160A		
Charge Connector Position	Fixed lateral side or on top		
Antiarc Type	n/a		
CANBUS Protocol	HYG		
CANBUS Speed	125Kbps for CH & TR		
Chemistry	LFP		

LI-ION BATTERY DATA	48 Volt J2.0-2.5UT(L)		
Battery Type	51.2V250AH	51.2V375AH	51.2V500AH
Dimension (L x W x H) (w/o CWT)	mm	754 x 470 x 610	
Weight (w/o CWT)	kg	276	276
Battery Colour	HYG HCE-51 Black		
Nominal Voltage	V	51.2	
Maximum Voltage	V	57.9	
Minimum Voltage	V	40.8	
Nominal Capacity	Ah	250	375
Usable Capacity	Ah	225	356
Energy	kWh	12.8	19.2
Nominal Discharge Current	A	220	300
Maximum Discharge Current -5s	A	400	500
Nominal Charge Current	A	100	150
Maximum Charge Current -5s	A	200	300
Operating Temperature	C	-10° – 45°	-25° – 45°
Charging Temperature	C	0° – 45°	
Power Connector	DIN 320A		
Power Connector Position	Floating on top		
Charge Connector	DIN 320A		
Charge Connector Position	Fixed lateral side or on top		
Antiarc Type	n/a		
CANBUS Protocol	HYG		
CANBUS Speed	125Kbps for CH & TR		
Chemistry	LFP		

BATTERY INFORMATION

LI-ION BATTERY DATA		80 Volt J3.0-3.5UT(L)		
Battery Type		77.2V250AH	77.2V375AH	77.2V500AH
Dimension (L x W x H) (w/o CWT)	mm	1078 x 470 x 610		
Weight (w/o CWT)	kg	400		
Battery Colour		HYG HCE-51 Black		
Nominal Voltage	V	77.2		
Maximum Voltage	V	86.8		
Minimum Voltage	V	61.2		
Nominal Capacity	Ah	250	375	500
Usable Capacity	Ah	225	356	475
Energy	kWh	19.3	28.9	38.6
Nominal Discharge Current	A	220	300	
Maximum Discharge Current -5s	A	400	500	
Nominal Charge Current	A	100	150	200
Maximum Charge Current -5s	A	200	300	400
Operating Temperature	C	-10° – 45°	-25° – 45°	
Charging Temperature	C	0° – 45°		
Power Connector		DIN 320A		
Power Connector Position		Floating on top		
Charge Connector		DIN 320A		
Charge Connector Position		Fixed lateral side		
Antiarc Type		n/a		
CANBUS Protocol		HYG		
CANBUS Speed		125Kbps for CH & TR		
Chemistry		LFP		

BATTERY CHARGER INFORMATION

LI-ION CACTI CHARGER DATA		48 Volt J1.5-1.8UT(L)		
For Corresponding Li-ion Battery Type		51.2V250AH	51.2V375AH	51.2V500AH
CACTI Charger description		HWCD18-48V		
Charger type		Three Phase Lithium Ion LFP CACTI charger with 160A connector		
Charger type		48V 100A (4.8kW)	48V 150A (7.2kW)	
Charge time		250AH: Single - 2.5hr, Dual - 1.5hr	375AH: Single - 2.5hr, Dual - 1.5hr	500AH: Single - 3.2hr, Dual - 1.9hr
Output Voltage Range		18-60VDC		
Current Limit Adjustable Range		2A-100A	2A-150A	
AC Input Voltage Range		320-475VAC		
AC Input Frequency		45Hz-65Hz		
AC Power Factor (PF)		≥ 0.99		
AC Current distribution (THD)		≤ 5%		
Peak-to-peak Noise (DC Output)		≤ 1%		
Stabilization Accuracy (DC Output)		≤ ±0.5%		
Steady Flow Accuracy (DC Output)		≤ ±0.5%		
Current Sharing (DC Output)		≤ ±5%		
Effectiveness (DC Output)		Output 18 – 60Vdc, Load ≥50% Nominal, the overall efficiency ≥93% Output 70 – 100Vdc, Load ≥50% Nominal, the overall efficiency ≥94%		
Protection (DC Output)		Short circuit, over current, over voltage, reverse connection, current backflow protection		
Working Temperature	C	-30° – 55° normal operation; 57° – 75° derating output; 75° or more shutdown protection		
Storage Temperature	C	-40° – 75°		
Relative Humidity		0 – 95%		
Altitude		≤2000m full load; 2000 – 3000m in accordance with GB/T3859.2-1993 5.11.2 predetermined, derating		
Output plug-in Specifications		Comply with GB/T 20234-2015.3		
Cooling Method		Forced air cooling		
Dimension (L x W x H)	mm	558 x 330 x 617		
Weight	kg	54		
Protection Level		IP23		

BATTERY CHARGER INFORMATION

LI-ION CACTI CHARGER DATA		48 Volt J2.0-2.5UT(L)		
For Corresponding Li-ion Battery Type		51.2V250AH	51.2V375AH	51.2V500AH
CACTI Charger description		HWCD18-48V		
Charger type		Three Phase Lithium Ion LFP CACTI charger with 320A connector		
Charger type		48V 100A (4.8kW)	48V 150A (7.2kW)	48V 200A (9.6kW)
Charge time		250AH: Single - 2.5hr, Dual - 1.5hr	375AH: Single - 2.5hr, Dual - 1.5hr	500AH: Single - 3.2hr, Dual - 1.9hr
Output Voltage Range		18-60VDC		
Current Limit Adjustable Range		2A-100A	2A-150A	2A-200A
AC Input Voltage Range		320-475VAC		
AC Input Frequency		45Hz-65Hz		
AC Power Factor (PF)		≥ 0.99		
AC Current distribution (THD)		≤ 5%		
Peak-to-peak Noise (DC Output)		≤ 1%		
Stabilization Accuracy (DC Output)		≤ ±0.5%		
Steady Flow Accuracy (DC Output)		≤ ±0.5%		
Current Sharing (DC Output)		≤ ±5%		
Effectiveness (DC Output)		Output 18 – 60Vdc, Load ≥50% Nominal, the overall efficiency ≥93% Output 70 – 100Vdc, Load ≥50% Nominal, the overall efficiency ≥94%		
Protection (DC Output)		Short circuit, over current, over voltage, reverse connection, current backflow protection		
Working Temperature	C	-30° – 55° normal operation; 57° – 75° derating output; 75° or more shutdown protection		
Storage Temperature	C	-40° – 75°		
Relative Humidity		0 – 95%		
Altitude		≤2000m full load; 2000 – 3000m in accordance with GB/T3859.2-1993 5.11.2 predetermined, derating		
Output plug-in Specifications		Comply with GB/T 20234-2015.3		
Cooling Method		Forced air cooling		
Dimension (L x W x H)	mm	558 x 330 x 617		
Weight	kg	54		
Protection Level		IP23		

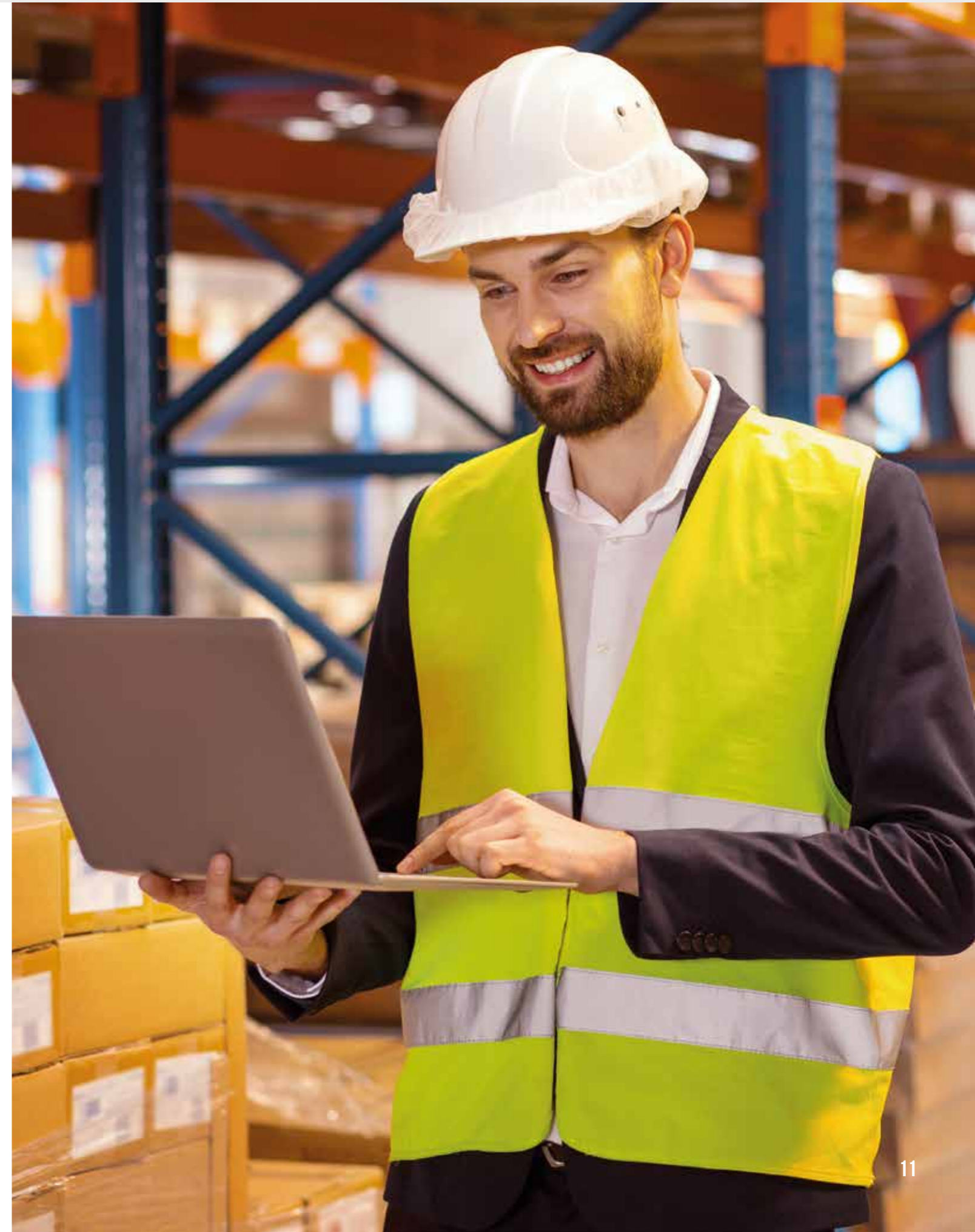
LI-ION CACTI CHARGER DATA		80 Volt J3.0-3.5UT(L)		
For Corresponding Li-ion Battery Type		77.2V250AH	77.2V375AH	77.2V500AH
CACTI Charger description		HWCD18-80V		
Charger type		Three Phase Lithium Ion LFP CACTI charger with 320A connector		
Charger type		80V 100A (8kW)	80V 150A (12kW)	80V 200A (16kW)
Charge time		250AH: Single - 2.5hr, Dual - 1.5hr	375AH: Single - 2.5hr, Dual - 1.5hr	500AH: Single - 3.2hr, Dual - 1.9hr
Output Voltage Range		18-60VDC		
Current Limit Adjustable Range		2A-100A	2A-150A	2A-200A
AC Input Voltage Range		36-100VDC		
AC Input Frequency		45Hz-65Hz		
AC Power Factor (PF)		≥ 0.99		
AC Current distribution (THD)		≤ 5%		
Peak-to-peak Noise (DC Output)		≤ 1%		
Stabilization Accuracy (DC Output)		≤ ±0.5%		
Steady Flow Accuracy (DC Output)		≤ ±0.5%		
Current Sharing (DC Output)		≤ ±5%		
Effectiveness (DC Output)		Output 18 – 60Vdc, Load ≥50% Nominal, the overall efficiency ≥93% Output 70 – 100Vdc, Load ≥50% Nominal, the overall efficiency ≥94%		
Protection (DC Output)		Short circuit, over current, over voltage, reverse connection, current backflow protection		
Working Temperature	C	-30° – 55° normal operation; 57° – 75° derating output; 75° or more shutdown protection		
Storage Temperature	C	-40° – 75°		
Relative Humidity		0 – 95%		
Altitude		≤2000m full load; 2000 – 3000m in accordance with GB/T3859.2-1993 5.11.2 predetermined, derating		
Output plug-in Specifications		Comply with GB/T 20234-2015.3		
Cooling Method		Forced air cooling		
Dimension (L x W x H)	mm	558 x 330 x 617		
Weight	kg	54		
Protection Level		IP23		

STANDARD AND OPTIONAL EQUIPMENT

PERFORMANCE	STD	OPT
48 volt electrical system REMA 160A Connector for J1.5-1.8UT(L)	X	
48 volt electrical system REMA 320A Connector for J2.0-2.5UT(L)	X	
80 volt electrical system REMA 320A Connector for J3.0-3.5UT(L)	X	
Standard Construction	X	
Vertical Battery Removal - without rollers Lift Out	X	
Without Battery on Lead Acid models	X	
Without Charger on Lead Acid models	X	
Li-ion Integrated Battery on L models	X	
48V 250Ah (12.8kWh) Integrated Li-ion battery		X
48V 375Ah (19.2kWh) Integrated Li-ion battery		X
48V 500Ah (25.6kWh) Integrated Li-ion battery		X
80V 250Ah (19.4kWh) Integrated Li-ion battery		X
80V 375Ah (29.1kWh) Integrated Li-ion battery		X
80V 500Ah (38.8kWh) Integrated Li-ion battery		X
Li-ion Charger on L models	X	
48V 100A (4.8kW) Three Phase Lithium Ion LFP CACTi charger with 160A connector		X
48V 150A (7.2kW) Three Phase Lithium Ion LFP CACTi charger with 160A connector		X
48V 100A (4.8kW) Three Phase Lithium Ion LFP CACTi charger with 320A connector		X
48V 150A (7.2kW) Three Phase Lithium Ion LFP CACTi charger with 320A connector		X
48V 200A (9.6kW) Three Phase Lithium Ion LFP CACTi charger with 320A connector		X
80V 100A (8kW) Three Phase Lithium Ion LFP CACTi charger with 320A connector		X
80V 150A (12kW) Three Phase Lithium Ion LFP CACTi charger with 320A connector		X
80V 200A (16kW) Three Phase Lithium Ion LFP CACTi charger with 320A connector		X
Less Li-ion Charger		X
DRIVE	STD	OPT
Integrated Directional Switch	X	
MONOTROL® Directional Control Pedal		X
Tyres - Super Elastic	X	
Tyres - Super Elastic - Non-Marking		X
Tyres - Pneumatic		X
Standard Tread	X	
Power Steering and Tilt Adjustable Steering column	X	
Steering Wheel with Spinner Knob	X	
LIFT	STD	OPT
2 Stage Limited Free Lift Mast 3300mm	X	
Available with range of 2 Stage Limited Free Lift and 2 or 3 Stage Full Free Lift Masts		X
5° Forward / 10° Back Mast Tilt	X	
5° Forward / 6° Back Mast Tilt		X
HANDLING	STD	OPT
With Tilt Cylinder Boots	X	
970 mm wide class II J1.5-1.8UT(L), 1040 mm wide class II J2.0-2.5UT(L) or 1100 mm wide class III J3.0-3.5UT(L) hook-type standard carriage	X	
Hook Type Integral Sideshift Carriage		X
930 mm high class II J1.5-1.8UT(L), 940mm high class II J2.0-2.5UT(L) or 1080 mm high class III J3.0-3.5UT(L) Load Backrest	X	

HANDLING (continued)	STD	OPT
Hook Type Standard Taper Forks - 920mm x 100mm x 35mm	X	
Hook Type Standard Taper Forks - 1070mm x 100mm x 35mm		X
Hook Type Standard Taper Forks - 1220mm x 100mm x 35mm		X
Hook Type Standard Taper Forks - 1070mm x 122mm x 45mm	X	
Hook Type Standard Taper Forks - 1220mm x 122mm x 45mm		X
3 Function (1 Auxiliary) Hydraulic Valve	X	
4 Function (2 Auxiliary) Hydraulic Valve		X
VISIBILITY	STD	OPT
Audible Reverse Alarm		X
Amber Strobe Light - Ignition Activated	X	
Parking Alarm	X	
LED Work Lights Two Front LED Work Lights with Stop, Tail, Indicator, and Reverse Lights	X	
LED Two Front / One Rear Work Light Package with Brake / Tail / Back-Up Lights with Turn Signals		X
Blue spot lights		X
ERGONOMICS	STD	OPT
Overhead Guard - 2152mm/2155mm or new 2192mm/2195mm	X	
Rain Cover for Overhead Guard		X
Front/Top Cabin Panels with Front Wiper Motor All Chassis		X
Rear Windscreen Wiper Motor All Chassis		X
Steel Modular Cab with PVC Doors		X
Full Steel Cab		X
Heater and Demister		X
Dual Mirrors Side View	X	
Dual USB Ports	X	
12V Outlet - automotive style socket under the dash	X	
Rear Drive Handle with Horn Button		X
Full Suspension Vinyl Seat	X	
Full Suspension Cloth Seat		X
Black Seat Belt - Black - With Traction Interlock	X	
Standard Seat Belt		X
Side charging socket for Li-ion models	X	
OPERATION	STD	OPT
Key Switch Start	X	
Traction Speed Limiter		X
Operator Presence System (OPS)	X	
Manual Park Brake	X	
Corner Speed Control/Reduction	X	
SUPPLEMENTAL	STD	OPT
12 Months / 2,000 Hours Manufacturer's Warranty	X	
60 months / 7,500 hours Integrated Li-ion Battery Warranty	X	
12 months Li-ion CACTI Charger Warranty	X	
Literature Package	X	


All values are nominal values and they are subject to tolerances.





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Safety: This truck conforms to the current EU requirements