

WORKHORSE



MY2020 C650/C1000 EV SPECIFICATIONS

SECTION	GROUP	ITEM
GENERAL	MANUFACTURER	WORKHORSE GROUP, INC.
	MODEL	C1000
	CHASSIS MODEL	WORKHORSE EV - C-SERIES
	MODEL YEAR	2020
	PRODUCTION LOCATION	UNION CITY, IN
	CERTIFICATIONS	VEHICLE TO COMPLY WITH ALL REQUIRED FEDERAL MOTOR VEHICLE SAFETY STANDARDS AND REGULATIONS EPA 50 STATE CoC AND CALIFORNIA AIR RESOURCES BOARD EXECUTIVE ORDER
	INSPECTIONS	PRE-DELIVERY AND FEDERAL ANNUAL INSPECTIONS ARE TO BE COMPLETED IN ACCORDANCE WITH 49 CFR 319.17
	MANUALS	OPERATOR, SERVICE, PARTS
SIZE & WEIGHT	WHEELBASE	C-1000 = 190"/C-650 = 144"
	LENGTH	C-1000 = 324"/C-650 = 247"
	FRONT TRACK	C-1000 = 86"/C-650 = 86"
	REAR TRACK	C-1000 = 86"/C-650 = 86"
	BODY WIDTH	C-1000 = 88"/C-650 = 88"
	BODY HEIGHT	C-1000 = 122"/C-650 = 122"
	GROUND CLEARANCE	C-1000 = 7.25"/C-650 = 7.25"
	GVW	GAW FRONT - 5000 LBS; GAW REAR - 7500 LBS; TOTAL GVW - 12500 LBS
FRONT AXLE	MAKE/MODEL	CUSTOM WORKHORSE DESIGN
	SEALS	INTEGRAL TO HUB ASSEMBLY
	CAPACITY	GAWR: 5,000 lbs.
REAR AXLE	MAKE/MODEL	CUSTOM WORKHORSE DESIGN
	SEALS	INTEGRAL TO HUB ASSEMBLY
	CAPACITY	GAWR: 7,500 LBS.
BRAKE SYSTEM	ABS	WABCO
	ROTORS AND CALIPERS	FRONT & REAR: WILLWOOD
	MASTER CYLINDER TYPE	BOSCH HYDROMAX II OR SIMILAR
	FLUID TYPE	DOT 3 SAE J1703 C
	BOOSTER TYPE	BOSCH HYDROMAX II WITH ELECTRIC BACKUP
PARK BRAKE	TYPE	ELECTRIC SOLENOID ON REAR CALIPER
FRAME	MANUFACTURER	TPI COMPOSITES, INC.
	MODEL	WORKHORSE C-SERIES 1000
COOLING SYSTEM - EV	CAPACITY	> 33,000 BTU/HR
	COOLANT	50/50 WATER/ETHYLENE GLYCOL
	PROTECTION	MINUS 35 F
	RADIATOR COOLING FANS	THREE 10" ELECTRIC FANS
	RADIATOR TYPE	HOWE RACING CUSTOM DESIGN
	RADIATOR HOSE TYPE	1.0" INLET/OUTLET DIA.

LOW VOLTAGE SYSTEM	DC/DC CONVERTER	12V POWER VIA DELTA 2.5 KW DC-TO-DC CONVERTER
IGNITION SYSTEM	KEY SYSTEM	KEY ENABLES VEHICLE
TRACTION DRIVE	MAKE/MODEL	DUAL MAGELEC M24P4-D-P-19; AXIAL FLUX INTERIOR PERMANENT MAGNET MOTORS
	POWER/TORQUE	2X324 NM CONTINUOUS; 2X736 NM PEAK; 2X90 KW CONTINUOUS AT 360 V
	MOTOR CONTROLLER	WORKHORSE DESIGNED
	GEARBOX & DIFFERENTIAL	MAGELEC F06T WITH PARK PAWL, RATIO 10.79
THERMAL CONTROL	COOLING SYSTEM	MOTORS, POWER ELECTRONICS AND CHARGER WATER COOLED AND MANAGED BY WORKHORSE SOFTWARE
	ELECTRIC HEAT	2 X 5 KW HIGH VOLTAGE HEATERS
	ELECTRIC WATER PUMP	HYPRO 9700B 12V 20GPM BRUSHLESS PERMANENT MAGNET CENTRIFUGAL WATER PUMP
VEHICLE CONTROL UNIT	SYSTEM	PARKER HANNIFIN IQAN-MC43 MASTER CONTROLLER
LIGHTING	LED LIGHTING	HELLA LED HEADLAMPS
STARTING SYSTEM	BATTERIES	OPTIMA YELLOW TOP DEEP CYCLE BATTERY, GROUP SIZE 35, 620 CCA
	MASTER LOW VOLTAGE DISCONNECT	BLUE SEA ML-RBS REMOTE BATTERY SWITCH WITH MANUAL CONTROL - 12V DC 500A
TRACTION BATTERY SYSTEM	BATTERY LOCATION/TYPE	4X OR 6X CENTER-MOUNTED PACKS BETWEEN AXLES; ENERDEL PE500-403
	BATTERY CAPACITY	17.5 KWH AVAILABLE ENERGY PER PACK; 70 KWH FOR FOUR PACKS AND 105 KWH FOR SIX PACKS USABLE
	NUMBER OF BATTERIES	192 CELLS PER PACK
TRACTION BATTERY CHARGING SYSTEM	LEVEL 2 CHARGING	2 X 6.6 KW DELTA CHARGER
	DC FAST CHARGE	50 KW optional
INSTRUMENT CLUSTER	GAUGES	POWER, SPEEDOMETER, STATE OF CHARGE; HEADS UP DISPLAY
	LIGHTS, WARNING	ALL STANDARD FMVSS REQUIRED TELLTALES; FORWARD COLLISION WARNINGS; LANE DEPARTURE WARNING
	INFORMATION DISPLAY	REARVIEW; DIAGNOSTIC INFO; CHARGE MODE; 12V BATTERY STATUS; OUTSIDE TEMPERATURE; BATTERY CELL TEMPERATURE MIN/MAX; HIGH VOLTAGE AVAILABLE VOLTAGE; TIME TO FULLY CHARGE
SPRINGS & SHOCKS	FRONT SPRINGS	COIL-OVER DUAL ACTING AIR SHOCKS
	REAR SPRINGS	GOODYEAR 2B12-425 AIR SPRINGS
	SHOCK ABSORBERS	DUAL ACTING GAS SHOCKS
STEERING	STEERING COLUMN	AFTERMARKET UNIT WITH TILT
	MAKE/MODEL	IDITIT "SHORTY" COLUMN
	TURNING RADIUS	8M
THROTTLE CONTROL	PEDAL TYPE THROTTLE	ORSCHELN ELECTRONIC FMVSS COMPLIANT
DRIVE SELECTOR	SHIFTER LOCATION	DASH MOUNTED ORSCHELN
WHEELS & TIRES	WHEEL TYPE	19.5 X 6.75" + 5.5" OFFSET
	WHEEL LUG HOLES	8 X 5/8"
	WHEEL HAND HOLES	EIGHT (8)
	WHEEL MATERIAL	ALUMINUM
	WHEEL COLOR	SILVER OR GLOSS BLACK POWDERCOAT
	TIRE SIZE	FRONT: ENDURANCE RSA 245/70R19.5 REAR: FUEL MAX RTD 245/70R19.5 OR G622 RSD 245/70R19.5
	AIR PRESSURE	110 PSI
	TIRE LOAD CAPACITY	FRONT: LOAD RANGE H, 9880 LBS PER AXLE, REAR: LOAD RANGE H (FUEL MAX), 9880 LBS PER AXLE, LOAD RANGE G (G622), 8820 LBS PER AXLE
	TIRE REVOLUTIONS PER MILE	620
	TIRE VALVE STEMS	GOODYEAR

C1000 Shown

