HI-GO POWER SYSTEM ROAD TEST REPORT

With 11.6 Ration Gearbox



PRODUCER： GUANGZHANG HU ; DATE： Feb.15.2023

PROOF-READER： HAIYANG HU ; DATE： Feb.16.2023

APPROVE： MINGSHAN DU ; DATE： Feb.18.2023

淮海跨境电商股份有限公司
HUAIHAI GLOBAL E-COMMERCE CO.,LTD.

ELECTRIC VEHICLE RESEARCH&DEVELOPMENT DEPARTMENT
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1、Information of tested vehicle



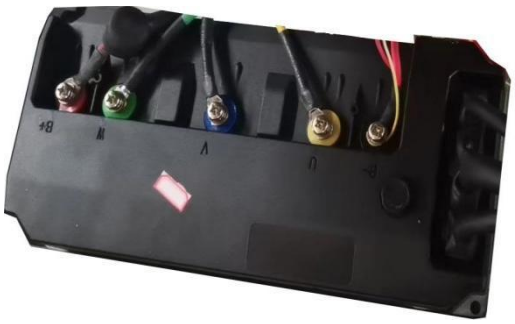
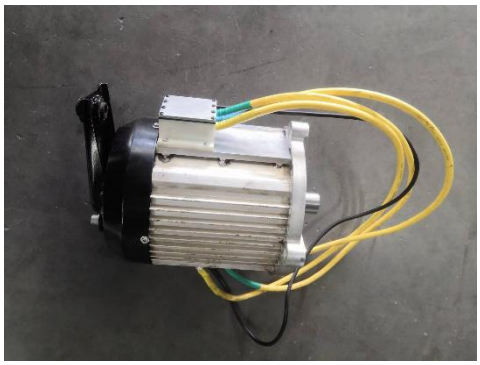
Model name	Hi-Go
Power system specification	72V3000W
Overall size(L*W*H)	2650*1300*1720mm
Curb weight	370Kg
Battery size	72V100Ah gel battery
wheel base	1975mm
wheel track	1130mm
Ratio	11.6
Tire size	4.00-8

2、Information of Power system（Battery）

Gel Battery	
	
Rated battery voltage	72V
Rated battery current	100Ah
Battery weight	32.7kg
Battery discharge interval	-20~60℃
Battery charging zone	-20~40℃
Communication	Without
Brand	Chilwee

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Information of Power system（Motor and controller）

Controller		Motor	
			
UDC	72V	P_N	3KW
IDC	130A	Motor type	PMSM
Controller MOS	36	Magnetic Height	65mm
Over temperature value	95℃	Over temperature value	150℃
Communication	Without	Installation size	140mmX140mm
Brand	YOUNAITE	Brand	YOUNAITE
Function	Anti galloping, HDC,self-inspection	\	\

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3、Engineers involved the test

Test name	Engineers name	Duty
Vehicle road test	GUANGZHANG HU	Performance test and endurance test
	HAIYANG HU	Data analysis

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4、The road testing

Empty load picture



Full load picture



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4.1.Paved road testing

Road condition	Load	Gear position	Ratio	Start current	Running current	Max. Speed	Reverse speed
Paved road	Empty	Low gear	1:11.6	117a	27a	28km/h	11km/h
		High gear		128a	47a	39km/h	
	1 person	Low gear		118a	28a	28 km/h	11 km/h
		High gear		130a	47a	38 km/h	
	Full load	Low gear		129a	40a	28 km/h	8km/h
		High gear		138a	59a	35 km/h	
Road condition	**Load**	**Gear position**	**Ratio**	**Start current**	**Running current**	**Max. Speed**	**Slope**
Climbing	1 person	Low gear	1:11.6	129a		7km/h	11 Degree
		High gear		130a		11 km/h	
	Full load	Low gear		131a		6 km/h	
		High gear		132a		10 km/h	

4.2.Mileage testing

Load condition	Gear position	Testing place	Max.speed	Mileage	Weight	TEMP
Empty Load	Low gear	Hong'an Factory	28km/h	100Km	627kg	20℃
	High gear	Hong'an Factory	39km/h	89Km		
One Person	Low gear	Hong'an Factory	28km/h	95Km	702kg	20℃
	High gear	Hong'an Factory	38km/h	83Km		
Full Load	Low gear	Hong'an Factory	28km/h	70Km	1000kg	20℃
	High gear	Hong'an Factory	35km/h	60Km		

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4.3.Basic function testing

Item	Function	Remark
HDC	11degree slope，stop in the middle，Slow down	√
Anti galloping	Bench testing ，Stop at signal loss	√
Brake power off	High level brake（12V+）effective	√
Gear shift	DNR works（forward&reverse 72V-works）	√

Remark: No-load reassembly mass is 659kg (including driver); Load 1 person maintenance weight is 729kg (including the driver); Full load reconditioning mass 1 ton (including driver)

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