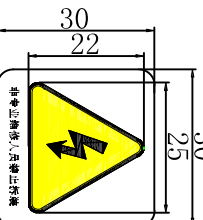


版本号	变更内容
V1.0	建立文档 2022.08.31

Model&Bar code Label  
2:1  
65

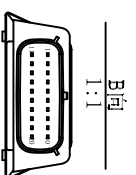
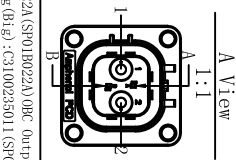
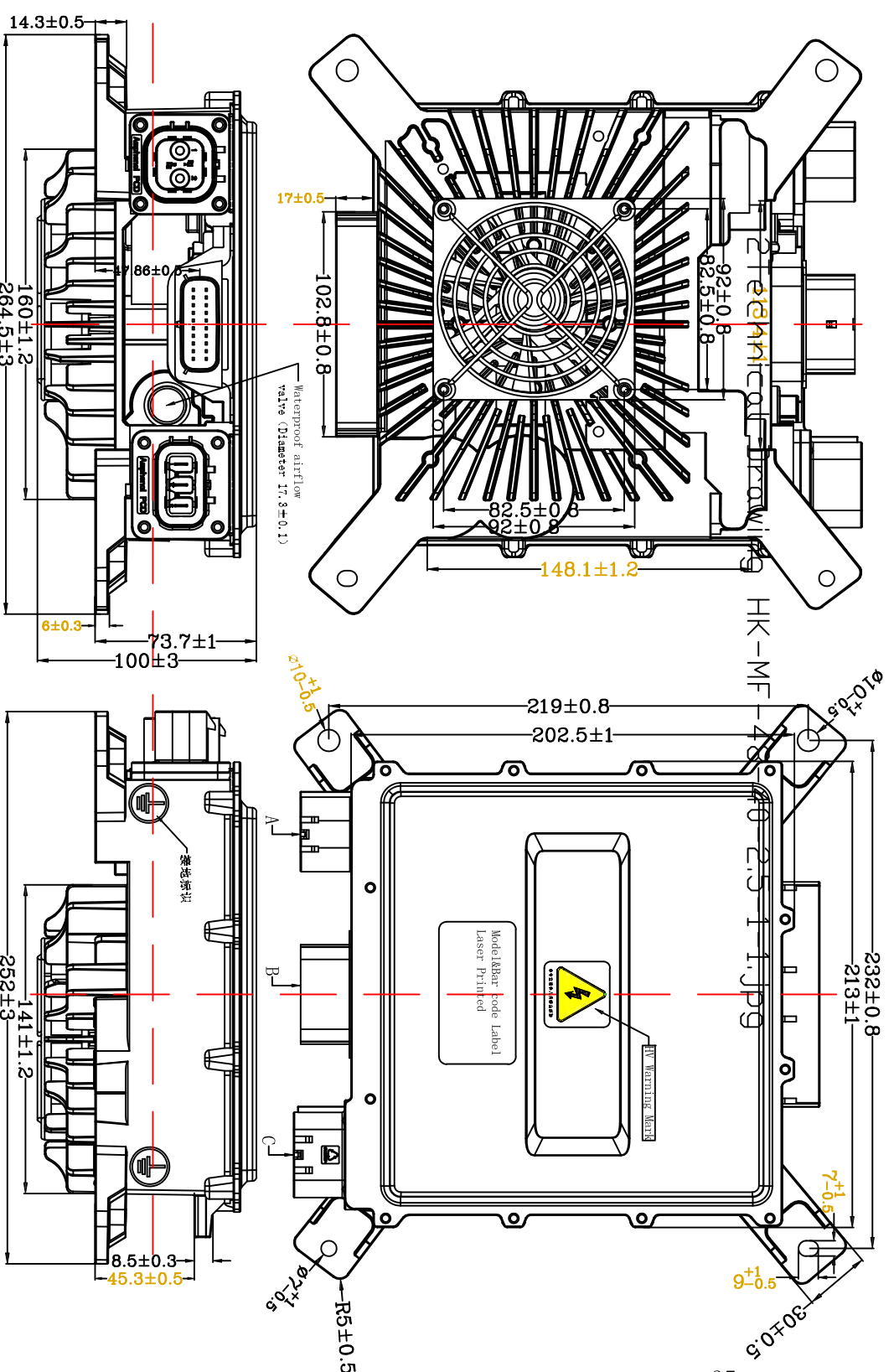
Grounded Mark  
2:1  
φ18

ElCon  
Electric Conversions  
型号: HK-MF-48-40  
配置: CANXXXX  
输入: 90-265VAC 50/60Hz16A  
输出: 35-70V/40A DC  
SNXXXXXXXXXX

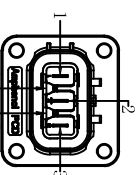


HV Warning Mark  
2:1  
30  
25

The description of the mark: white background. The symbol and the the frame is black. The rest is yellow;The character is black, song type. The height is 1.5mm.



HVSL362062A(SP01B062A) OBC output Terminal Crimping (Brg): C3100235011 (SP01N45001P) Crimping (Seal): C310002614 (SP01N2001S)			
Brand	Pin	Definition	Wiring Color / Diameter (mm²)
Amphenol	1	Positive	Red/8AWG
	2	Negative	Black/8AWG
Amphenol	A	HVTL Signal 1	Grey/0.5mm²
	B	HVTL Signal 2	Brown/0.5mm²



HVSL633023A(SP01A023A) OBC Input Terminal Crimping (Brg): C310006622 (SP01N63001P) Crimping (Seal): C310003814 (SP01N2001S)			
Brand	Pin	Definition	Wiring Color / Diameter (mm²)
Amphenol	1	Hot Line (V)	Black/4
	2	Barth Line (PE)	Yellow Green/4
Amphenol	3	Lite Line (L)	RBD/4
	A	HVTL Signal 1	Grey/0.5
	B	HVTL Signal 2	Brown/0.5

348302001 Signal Terminal			
Brand	Pin	Definition	Color/Wiring Diameter (mm²)
Molex	10	12V5A Output +	
	11	CANH	
	12	CANL	
	13	HVTL 1	
	14	HVTL 2	
	17	GND	
	Others	NC	

Mating Connectors (For Reference)			
Terminal	Mating Connector	Crimping	Accessories
OBC Input	HVSL633063A106I (SP01A063A106I)	C310003623 (SP01N63001S)	Included
OBC Output	HVSL362062A110I (SP01B062A110I)	C310023502I (SP01N45001S)	Included
OBC Signal	334722006	330122002	Rest (Included) 343450001 (Selias)

TC Model: HK-MF-48-40

Technical requirements:

1. Vehicle Models: According to customers;
2. Parts number: According to customers;
3. Working temperature: -40 °C to +85 °C;
4. Storage temperature: -55 °C to +100 °C;
5. Rated output voltage: 48 VDC; Output Voltage Range: 35~70VDC;
6. Max output current: 40A;
7. Endosure Grade: IP 67;
8. Rated Power: 2.5 KW;
9. The Input Voltage Range: 90 VAC - 265 VAC
10. Insulation resistance: Under 1000V/DC, the isolation resistance value meeting the requirements of input, output terminal to case >= 20M ohm;
11. Ground Resistance: Under 25A DC, the resistance value meeting the requirements of AC PE pin to ground pin <100mΩ;
12. Power Factor >= 0.96;
13. Full Load Efficiency: >= 93%;
14. The protection function of OBC: Reverse Protection; Short Circuit Protection; Under Voltage Protection; Over Voltage Protection; Over Heating Protection;
15. All adapting connectors are tightly and neatly pressed, and well connected;
16. The crimping should be neat and tight, well contacted.
17. For parts, there is no tolerance marked, should be complied with GB/T 1804-2000 class V.
18. Other requirements comply with QC/T 895-2011
19. CAN Algorithm Number: TBD

TCKH-	V1.0				
HK-M					
设计处数	更改文件号	签字	日期		
设计		工艺			
制图	陈彬	标准化			
审核		批准			
日期		主机厂确认			
单位	mm	图幅	A0		
序号	数量	重量	比例	1:1	
第	张	共	张		
ElCon		Electric Conversions			