

3.3KW Can Bus Charger HK-MF-144-23-X 144 Volt



Overview

The **HK-MF-144-23-X** 3.3KW CAN Bus 144 Volt Charger features a small form factor and high efficiency. Built in features include both Output over-voltage and over-current protection.

Other features include reverse polarity protection as well as under-voltage and under-current protection. The unit is fully sealed and waterproof, making it suitable for most environments. Manufactured in China by TC Chargers.

Specifications

Charging Control:

AC Input Voltage Range: AC 90V ~ 264V

DC Output Voltage Range: 50 – 198VDC

AC Input Frequency: 45Hz ~ 65Hz

Full Loading Efficiency: ≥93%

Shock & Vibration: QC/T 895-2011

CAN BUS

Operating Temperature: -40C ~ 85C

Cooling Method: Electric Fan

Protection Features

Output Over-voltage: Stops the output when the

output voltage exceeds + 1% of max output voltage

Output Over-current: Stops the output when the

output current exceeds + 1% of max output current

Short Circuit Protection: Unit will automatically

stop output if short

detected

Reverse Polarity: Charger will not operate if

polarity is reversed

Input Under-voltage: If AC input is lower than

85V unit will shut down

Input Over-voltage: If Ac input is greater than

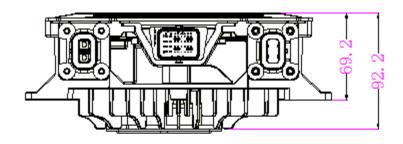
265V the charger will shut

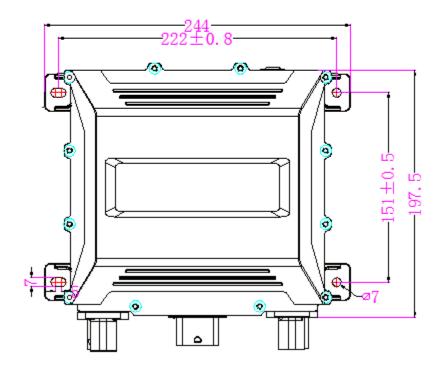
down

Thermal Self Protection: The charging current

reduces automatically if internal temp exceeds 85C

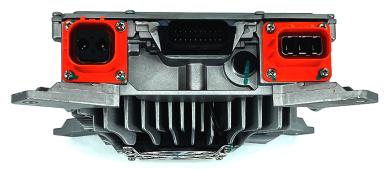
Physical Dimensions – HK-MF-144-23-X Charger





Pin Connectors - HK-MF-144-23-X Charger









Terminal number	Line diameter	Line kind	function definition
1	8 mm ²	High voltage cable	Output+
2	8 mm ²	High voltage cable	Output-

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serie s Ns.	Signal bit number	fitte	Panetien	Current	signal type	vire secti onal area	Wire color	remerks
1	1A	Thermistor 1 +	- 7	7	- 7	1	1	reserved
2	1B	Thermistor I.	/	1	7	7	1.7	reserved
3	1C	Thermistor 2 +						reserved
4	ID	Thermistor 2-		1	7			reserved
5	IE	External red indicator light	Charging status indicator red light output positive					used
6	IF	External connection with a green indicator light	Charging status indicator greed light output positive	,	,	,	,	used
7	1G	NC						reserved
8	1H	KL30 current +	Normal power input power supply 9-18v					reserved
9	2A	EW_WAKEUP_OUTPUT	The OBC wake-up output	200mA	analog output	7	7	Connect BMS and VCU for continuous high level effectiveness (reserved)
10	2B	IN_WAKEUP_EN	input wake up signal					reserved

Connect ors name	OBC input		Connecte
Terminal No.	Line diameter	Line type	function definition
1	2.5 mm ²	High voltage cable	L
2	2.5 mm ²	High voltage cable	PE
3	2.5 mm ²	High voltage cable	N

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			supply 9-18v					
9	2A	EW_WAKEUP_OUTPUT	The OBC wake-up output	200mA	analog output	,	,	Connect BMS and VCU for continuous high level effectiveness (reserved)
10	2B	IN_WAKEUP_EN	input wake up signal					reserved
11	2C	NC	1	- 7	- /		1	1
12	2D	NC						
13	2E	NC	- /	1	1		1	1
14	2F	CAN GND	CAN the carth	20mA	Commu nication to			reserved
15	26	NC						
16	2H	OBC low-voltage power +	OBC low-voltage power supply +	output 13.8V5. 5A				used
17	3A	cc	linkage affirm	20mA	analog input			Check whether the charging plug is connected to the vehicle (reserved)
18	3В	CP	power affirm	20mA	analog input			To submit the maximum allowable current of the charging station and confirm the grounding reliability (reser- ved)
19	3C	Charging lock-locking signal (680)						reserved
20	3D	Charging lock-locking signal (1000)						reserved
21	3E	NC						
22	3F	Electrical lock feedback line 3	Electrical lock feedback line 3					reserved
23	3G	NC						
24	3Н	Electronic lock power	Lock the charging plue					reserved
25	4A	CAN_H	CAN high	20mA	number		7	used
26	4B	CAN L	CAN low	20mA	number			used
20	4B			ZHIIA	s			used
27	4C	High-voltage interlock signal HVIL +	High voltage interlock 1					reserved
28	4D	High-voltage interlock signal HVIL-	High voltage interlock 2					reserved
29	4E	Electronic lock feedback line 2	Electronic lock feedback line 2					reserved

Installation Requirements – HK-MF-144-23-X Charger





Best installation method

General installation method



Prohibited installation method

Prohibited installation method is due to the risk of water entering the hole where the fan wire passes into the case.