

## 2000W HF/PFC Battery Charger



### ADVANTAGES

1. Internal integrated PFC, no pollution to electric network, protect shocking on electric network from heavy current.
2. Wide input voltage range AC85V~AC265V available for worldwide requirements, convenient for electric-network fluctuation and vehicles exportation.
3. High with 93% above efficiency while only about 80% efficiency the traditional chargers can meet.
4. Intelligent temperature compensation function in the charging process, preventing the damage to battery caused by charge-off or charge due, greatly extending the lifespan of the battery.
5. Fully-sealed and water-proof, protection class IP65. Shock resistance treatment made inside makes vibration-proof level up to SAEJ1378 that can fully meet the standard of automobile appliance usage.
6. Available for various kinds batteries like lead-acid, LiFePO4 battery etc., Flexible and programmable of the charging module. Memory to store 10 unique algorithms. Equipped with CAN communication interface to realize real-time communication with BMS.

### PROTECTION FEATURES

1. Thermal Self-Protection: When the internal temperature of the charger exceeds 75°C, the charging current will reduce automatically. If exceeds 85°C, the charger will shutdown protectively. When the internal temperature drops, it will resume charging automatically.
2. Short-circuit Protection: When the charger encounters unexpected short circuit across the output, charging will automatically stop. When fault removes, the charger will re-start in 10 seconds.
3. Reverse Connection Protection: When the battery is polarity reversed, the charger will disconnect the internal circuit and the battery, the charging will stop and avoid been damaged.
4. Input Low-voltage Protection: When the input AC Voltage is lower than 85V, the charger will shutdown protectively and automatically resume working after the voltage is normal again.

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### TECHNICAL TARGET

AC Input Voltage Range	AC85V~AC265V
AC Input Frequency	45~65 Hz
AC Power	≥0.98
Full Load Efficiency	≥93%
Mechanical Shock & Vibration Resistance Level	Conformance to SAEJ1378 Standard
Environmental Enclosure	IP65
Operating Temperature	-40°C~+55°C
Storage Temperature	-40°C~+100°C
Mechanical Dimensions (mm)	352(L) x 195(W) x 139(H)
Net Weight	7.07kg

### SPECIFICATION

Model	Output Voltage Nominal	Output Voltage Maximum	Output Current Maximum
TCCH-48-35	48V	66V	35A
TCCH-60-30	60V	83V	30A
TCCH-72-25	72V	96V	25A
TCCH-84-21	84V	112V	21A
TCCH-96-18	96V	130V	18A
TCCH-108-16	108V	145V	16A
TCCH-120-15	120V	168V	15A
TCCH-144-12	144V	192V	12A
TCCH-156-11	156V	208V	11A
TCCH-168-10	168V	233V	10A
TCCH-180-09	180V	243V	9A
TCCH-192-09	192V	258V	9A
TCCH-216-08	216V	289V	8A
TCCH-240-07	240V	337V	7.2A
TCCH-288-06	288V	389V	6A
TCCH-312-06	312V	417V	5.5A

### LED INDICATOR

Red-Green flash (one second interval)	Battery Disconnected
Red flash (three seconds interval)	Repair Battery
Red flash (one second interval)	<80% Charge Indicator
Yellow flash (one second interval)	<80% Charge Indicator
Green flash (one second interval)	100% Charge Indicator

### ALARMS

	LED Flashing Sequence (One Cycle)	Indication
1	RG_ _ _ _ _	Wrong Battery
2	RGR_ _ _ _ _	Overcharged
3	RGRG_ _ _ _	Battery Overheated
4	RGRGR_ _ _	Incorrect AC Input Voltage
5	RGRGRG_ _	External Thermal Sensor Fault
6	RGRGRGR_	Communication Interface Fault
7	GR_ _ _ _ _	Charger Overheated
8	GRG_ _ _ _ _	Charger Relay Fault; Repair
9	GRGR_ _ _ _	Charger Fault; Repair

#### Note:

1. R—red G—green
2. " \_ " denotes one second stop
3. Above LED flashing sequence is one cycle, the LED will flash repeatedly when in fault.

#### Choice of Charging Curve (curve 1~10)

1. The LED will flash red several times when AC is first connected, then the LED will flash green once. The number of red flashes denotes the present curve. E.g. If the red flashes three times, it means the present curve is curve 3.
2. To choose another curve, please cut off the power supply first, then unpeel the label, pressing the button while connecting the power. If you want to choose curve 3, release the button after the 3rd LED Flash. Now the selected curve (e.g. curve 3) will be recorded in memory. If you want the charger to work with the selected curve (e.g. curve 3), cut off the power and reconnect it.
3. Factory customizes 10 charging curves before delivery according to customer demand. These are 10 combinations of voltage and battery size for the same battery type.