

AC/DC Battery Charger ABC-1260



Features:

- The Charger can be fully programmed by RS-232
- Built-in battery low voltage startup function
- Built-in FAN&FAN OFF silent mode
- Compatible with Lead Acid, LiFePO4, Gel and AGM batteries
- High efficiency and high reliability
- Withstand 2G vibration test
- Advanced Protection Features
 - Battery reverse polarity protection (AUTO - RECOVERY)
 - Output over voltage / short circuit protection
 - AC Input over/under voltage or protection
 - Internal over temperature protection
- Voltage / temperature compensation with battery temperature sensor
- Built in 16x2 LCD



MODEL		ABC-1260
DC OUTPUT	Rated Current	Total 60A (20A + 20A + 20A)
	Charge Output	3
	Charging Voltage	< 15V (Charging Curve by Display)
	Battery Type	Lead Acid / LiFePO4 / Gel /AGM
	Fuse	25A x 3
AC INPUT	Nominal Voltage	100VAC~240VAC
	Voltage Range	80VAC~270VAC
	Frequency Range	47Hz~63Hz
	Power Factor@Full Load	>0.99
	Efficiency at 230VAC	85%
	Fuse	12.5A x 1

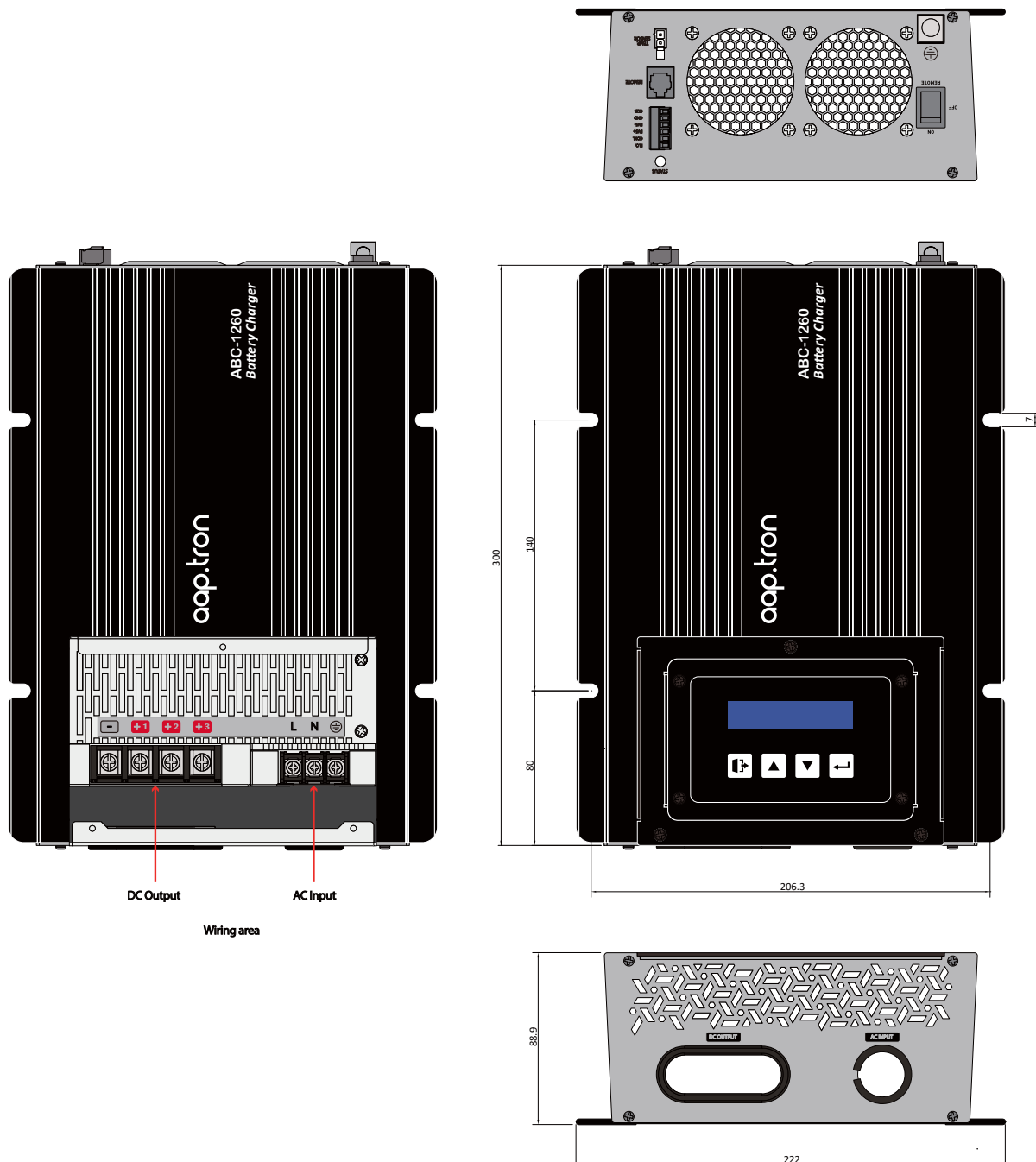
MODEL		ABC-1260
ENVIRONMENT	Working Temperature	-20 ~ +60°C (De-rating by Ambient temperature > 40°C)
	Storage Temperature	-40 ~ +85°C
	Relative Humidity	95% , non condensing
	Vibration	IEC68-2-6
Safety & EMC	Safety Standards	Meet EN62368
	EMC Standards	Meet CE Class B
	E-mark	Meet
PROTECTION	Output Battery Reverse	Polarity reversed protection shutdown by auto- recovery
PROTECTION	Output Battery Under Voltage	<10V DC Rescue charge
	Output Battery Over Voltage	>17VDC Shutdown
	Output Battery Over Temperature	>52°C +-5°C Shutdown by battery temperature sensor (Optional)
	Output Short Circuit	3 seconds continuous output <1A, after shutdown
	Input Under Voltage	De-rating : <100VAC Shutdown : <80VAC
	Input Over Voltage	>270VAC Shutdown
	Charger Over Temperature	De-rating : Ambient temperature > 40°C Shutdown : Ambient temperature > 60°C
Others	Dimension W x D x H (mm)	222 x 300 x 88.9
	Weight (KG)	2.75

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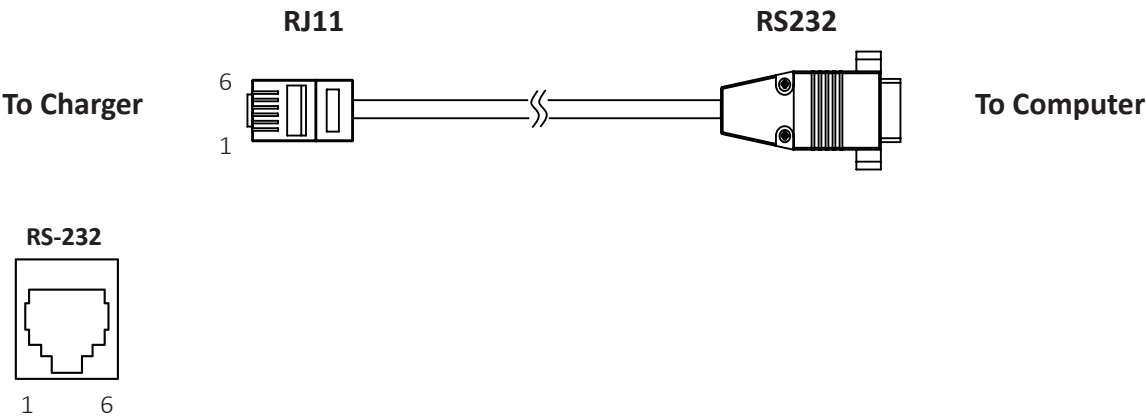
Mechanical Drawing:

Unit: mm



RS-232:

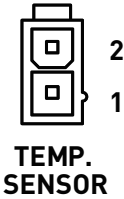
Please follow below demonstration to make communication cable



CHARGER		RJ11 to RS232				RS232 to USB	
RJ11 (Female)		RJ11(Male)		RS232(Female)		RS232(Male)	
PIN	Description	PIN	Description	PIN	Description	PIN	Description
1	Not used	1	N/A	N/A		N/A	
2	GND	2	GND	5	GND	5	GND
3	RX	3	RX	3	RxD	3	TxD
4	TX	4	TX	2	TxD	2	RxD
5	Not used	5	N/A	N/A		N/A	
6	5VP	6	N/A	N/A		N/A	

Temp:

1	Temp.
2	GND



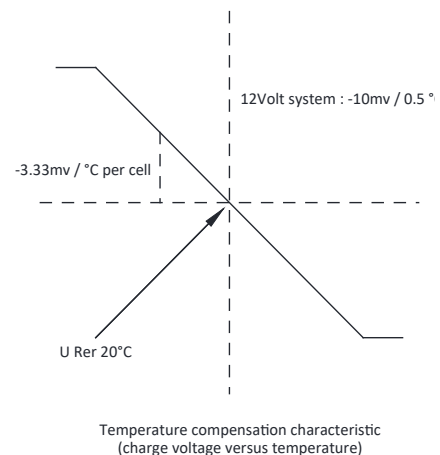
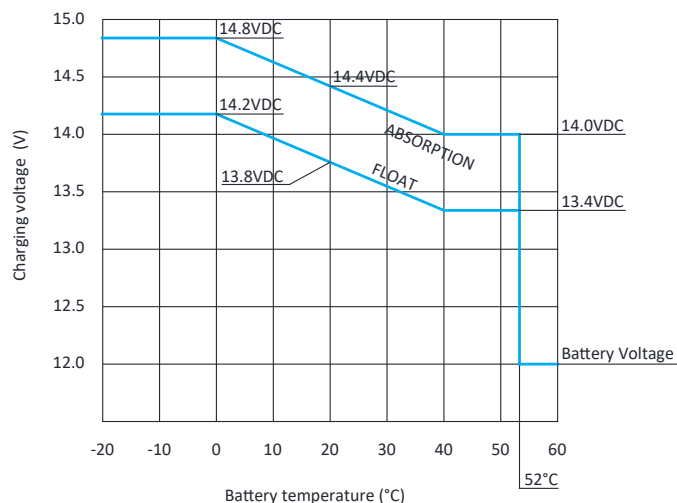
Black Terminal:

	N.O.
	COM.
	BVS+
	GND
	FCB-
	CCB-

PIN	Name	Function	Explanation
1	N.O.	Charging Relay Normally Open	Charger OFF : PIN1&PIN2 open
2	COM.	Charging Relay Common	Charger ON : PIN1&PIN2 short
3	BVS+	Battery Voltage Sense	Charge compensation by short Battery+
4	GND	GND	Battery-
5	FCB-	FAN OFF	FAN OFF by short PIN4
6	CCB-	Remote Charger ON / OFF	Main switch to ON : Charger OFF by short PIN4 or ARB-1 Main switch to REMOTE : Charger ON by short PIN4 or ARB-1

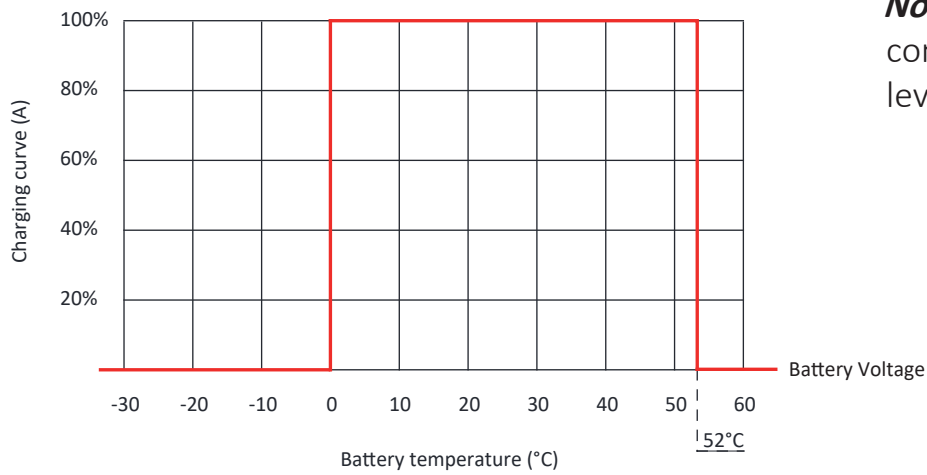
The de-rating curve of Temperature compensation on voltage level:

*Battery type = Lead-acid, GEL and AGM



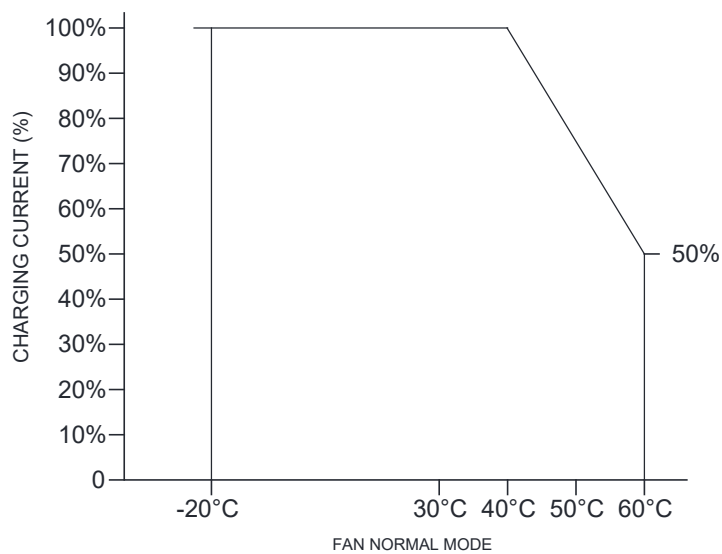
*In the absorption =14.4V and float =13.8V situation. Please follow this rule in other situation.

*Battery type = LiFePO4











Notice: No temperature compensation on voltage level when setting LiFePO4

Charging Current VS Ambient Temperature De-rating Curve:



Display LED:

Charger Status LED	Display	Status
Green light Slowly		C.V.--> Store
Green light Continuously		C.V.--> Float (SOC=100%) or POWER mode
Orange light Continuously		C.V.--> Absorption
Orange light Slowly		C.C.--> Bulk
Orange light Quickly		C.C.--> De-rating
Red light Continuously		Critical abnormal protection shutdown (Output fuse broken or Output short circuit)
Red light Slowly		Abnormal protection shutdown (Battery/Charger over voltage or temperature)
Red light Quickly		AC Input abnormal protection shutdown (Over/Under voltage)
No light		Charging OFF (AC Input fuse broken)