

BEU700 series

v1.0

The BEU700 series of AC/DC charger provide 697 Watts of continuous output power. All components are UL 94V-1 min compliant. This model meets FCC Part-15 class A and CISPR-22 class A emission Limits and is designed to comply with UL/c-UL. All units are 100% burned in and tested.



RoHS2
2011/65/EU

697W DC Wallbox EV charger

FEATURES:

- * Wide Operating Voltage, 99 to 264 VAC, 47 to 63 Hz
- * Single output
- * Protection: OTP
- * Size : 4.5"x9.25"x1.6"
- * Suitable professional EV charging station, battery exchange
- * Programable C.V.+C.C.
- * RS-485 Communication Format
- * 2 year warranty

APPLICATIONS:

- * EV charging station
- * Battery exchange station
- * Battery charger
- * LED lighting
- * Laser Equipment

GENERAL SPECIFICATION:

- * **Short Circuit Protection:** Auto Recovery
- * **Cooling:** Forced Air.
- * **Flammability Rating:** UL94V-1
- * **Protection Classes:** Class I
- * **Safety:** IEC 60950-1:2005/A2:2013, EN 60950-1:2006/A2:2013
BSMI:CNS13438, CNS14336-1, CNS15663

APPROVALS:



Electrical Characteristics:

Symbol	Characteristic	Condition	Min.	Typ.	Max.	Unit
Vins	Safety Approval Input Voltage Range	Safety Approval & Specification in Label	110		240	VAC
Vin	Input Operate Voltage Range	Detail to see Fig.1	99		264	VAC
Fi	Input Frequency	Sine wave	47		63	Hz
PF	Power Factor Correction		0.90		1	
Po	Output Power Range	See Rating Chart			697	W
Iil	Low Line Input Current	Full Load, Vin=100VAC		8.5		A
Iih	High Line Input Current	Full Load, Vin=240VAC		3.5		A
Irl	Low Line Input Inrush Current	Full Load, 25°C, Cool start, Vin=100VAC			50	A
Irh	High Line Input Inrush Current	Full Load, 25°C, Cool start, Vin=240VAC			108	A
Ik	Safety Ground Leakage Current	Vin=240VAC, Fi=60Hz			0.75	mA
η	Efficiency	Full Load, Vin=230VAC, Detail to see Rating Chart	See Rating Chart			
ΔVoi	Line Regulation	Full Load, Vin=100~120VAC or 200~240VAC			1	%
OVP	Over Voltage Protection	Set at 58.1V@3s, auto recovery	112		132	%
OLP	Over Load Protection	Recovers automatically after fault condition is removed	105		112	%
Ris	Insulation Resistance		50			MΩ
Tc	Temperature Coefficient	All Condition			±0.04	%/°C
HV	Dielectric Withstanding Voltage (P-S)	Primary to Secondary, limit current <10mA	4120			VAC
Vpg	Dielectric Withstanding Voltage (P-G)	Primary to PE, limit current <10mA	2060			VAC
EMI	EMC Emission	Meet EN55032 (CISPR32), EN55024-1-2	A			Class

Environmental:

Symbol	Characteristic	Condition	Min.	Typ.	Max.	Unit
To	Operating Temperature	Detail to see Fig.1 (Derate linearly from 100% load at 40°C to 50% load at 70°C)	-20		70	°C
Ts	Storage Temperature	10 ~ 95% RH	-40		85	°C
Ho	Operating Humidity	non-condensing	0		95%	RH
Hs	Storage Humidity		0		95%	RH
ESDa	Electro Static Discharge	Air Discharge, IEC61000-4-2			8	kV
ESDc	Electro Static Discharge	Contact Discharge, IEC61000-4-2			6	kV
MTBF	Mean Time Between Failure	Operating Temperature at 25°C, Calculated per MIL-HDBK-217F	100k			h
Vsl	Surge Voltage	Line-Neutral			1	kV
Vsg	Surge Voltage	Line-PE & Neutral-PE			2	kV

BEU700 series

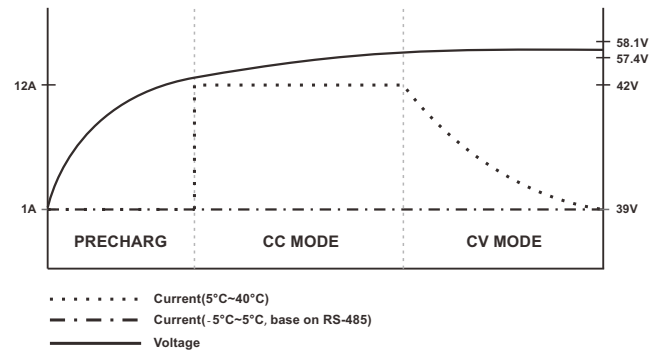
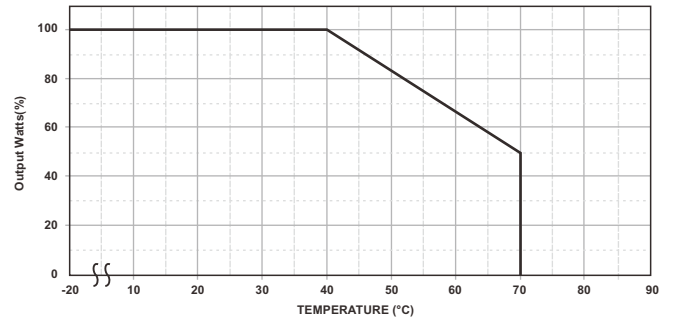
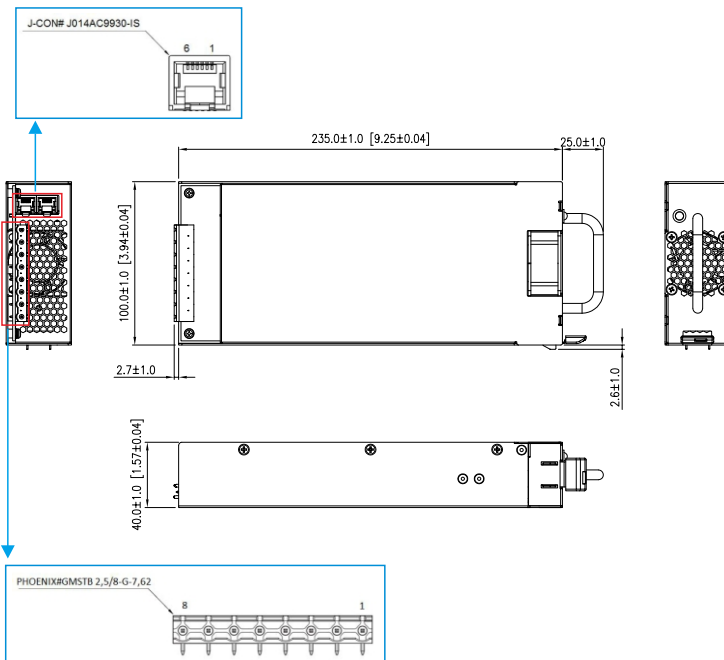
V1.0

697W DC Wallbox EV charger

SPECIFICATION NOTE :

1. Output can provide up to peak load when the power supply starts up. Continuous staying in more than rated load is not allowed.
2. At factory, in 60% rated load condition, each output is checked to be within voltage accuracy.
3. Line regulation is defined by changing $\pm 10\%$ of input voltage from nominal line at rated load.
4. Load regulation is defined by changing $\pm 40\%$ of measured output load from 60% rated load.
5. Efficiency is measured at rated load, and nominal line.

MECHANICAL DIMENSIONS: (UNIT: mm [inch])



PACKING :

1. Net weight: 1350g approx.
2. Input & Output connector mates with PHOENIX#GMSTB 2,5/8-G-7,62.
3. Communication mates with J-CON# J014AC9930-IS.

PIN CHART

Input & Output connector

PIN	FUNTION
1	L
2	N
3	G
4	Vo +
5	Vo +
6	RTN
7	RTN
8	N/C

P2 communication Connector

PIN	FUNTION
6	RS485 D-
5	RS485 D+
4	NC
3	NC
2	CAN1L
1	CAN1H

P1 communication Connector

PIN	FUNTION
6	NC
5	PGC
4	PGD
3	GND
2	VCC
1	MCLR

Rating Chart:

MODEL NO.	Current (max.)	Setting Voltage Range	Maximum Output Power	Total Regulation	Typ. Efficiency	Typ. No Load Consumption
	(A)	(VDC)	(W)	(%)	(%)	(W)
BEU700-112	12	39 ~ 58.1	697	±2	87	10