

**SEDA170 SERIES**

**173W AC/DC 3A E-Bike Charger**

- Wide Operating Voltage, 90 to 264 VAC, 47 to 63 Hz
- Single output; 3.0A Max. Current
- Protection: OVP, UVP, Charging timing protection, Charger thermal protection,
- Constant current protection, Battery charging error protection
- Programable C.V.+C.C.

**2 Year Warranty**

Approvals: (Preliminary)

**Single Output**

MODEL NO.	Current (max.)	Setting Voltage Range	Maximum Output Power	Typ. Efficiency	Typ. No Load Consumption
	(A)	(VDC)	(W)	(%)	(W)
SEDA170-S12	3	32 ~ 57.4±0.3	173	93	1

**Electrical Characteristics**

Characteristic	Condition	Min.	Typ.	Max.	Unit
Safety Approval Input Voltage Range	Safety Approval & Specification in Label	100		240	VAC
Input Operate Voltage Range	Detail to see Fig.1	90		264	VAC
Input Frequency	Sine wave	47		63	Hz
Power Factor Correction		0.95		1	
Output Power Range	See Rating Chart			173	W
Low Line Input Current	Full Load, Vin=100VAC		2.3		A
High Line Input Current	Full Load, Vin=240VAC		1.1		A
Low Line Input Inrush Current	Full Load, 25°C, Cool start, Vin=100VAC			60	A
High Line Input Inrush Current	Full Load, 25°C, Cool start, Vin=240VAC			120	A
Safety Ground Leakage Current	Vin=240VAC, Fi=60Hz			0.25	mA
Efficiency	Full Load, Vin=230VAC, Detail to see Rating Chart	See Rating Chart			
Line Regulation	Full Load, Vin=100~120VAC or 200~240VAC			1	%
Insulation Resistance		50			MΩ
Temperature Coefficient	All Condition			±0.04	%/°C
Dielectric Withstanding Voltage (P-S)	Primary to Secondary, limit current <10mA			4242	VDC
Dielectric Withstanding Voltage (P-G)	Primary to PE, limit current <10mA			2121	VDC
EMC Emission	Meet EN55032 (CISPR32), EN55014	B			Class

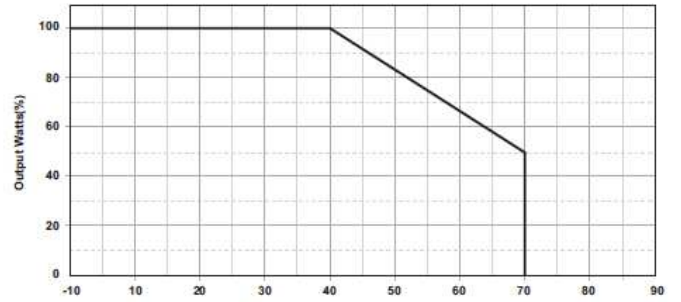
**Environmental**

Characteristic	Condition	Min.	Typ.	Max.	Unit
Operating Temperature	Detail to see Fig.1 (Derate linearly from 100% load at 40°C to 50% load at 70°C)	-10		70	°C
Storage Temperature	10 ~ 95% RH	-20		60	°C
Operating Humidity	non-condensing	10		95%	RH
Storage Humidity		10		95%	RH
Electro Static Discharge	Air Discharge, IEC61000-4-2			8	kV
Electro Static Discharge	Contact Discharge, IEC61000-4-2			4	kV
Mean Time Between Failure	Operating Temperature at 25°C, Calculated per MIL-HDBK-217F	50k			h
Surge Voltage	Line-Neutral			1	kV

Mechanical Drawing and Technical Charts

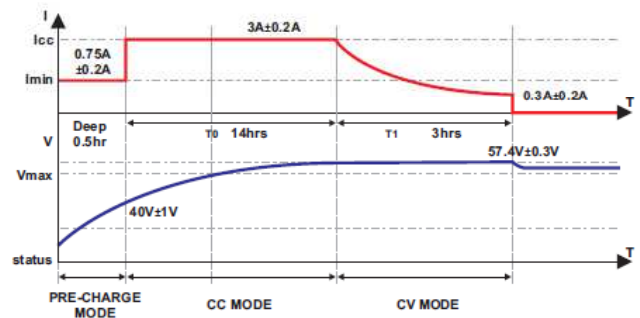
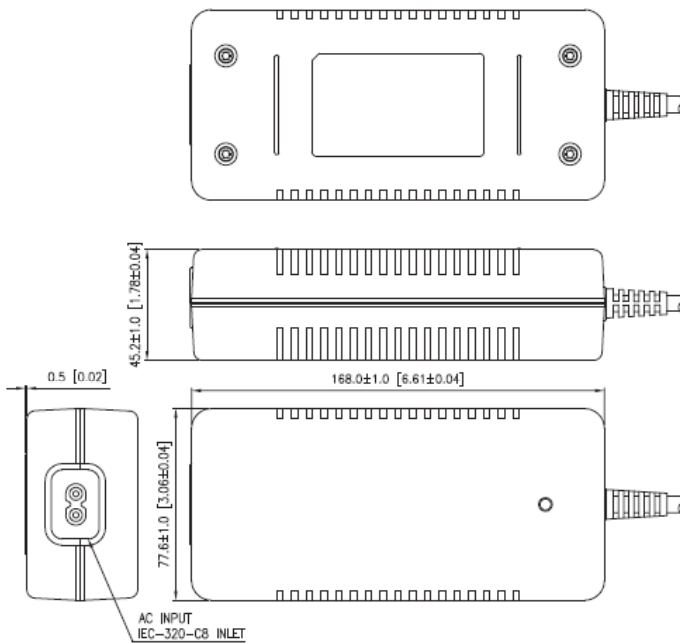
**SPECIFICATION NOTE :**

1. The ripple is measured from peak to peak with a bandwidth-limit of 20MHz (Measured at the output connector with a 0.1uF ceramic capacitor and a 47uF electrolytic capacitor).
2. Efficiency is measured at rated load, and nominal line.



(FIG.1) TEMPERATURE DERATING CURVE

**MECHANICAL DIMENSIONS: ( UNIT: mm[inch] )**



- PRE-CHARGE CURRENT : 0.75A ± 0.2A
- PRE-CHARGE VOLTAGE : 32-40V ± 1V
- FULL CHARGE CURRENT : 3A ± 0.2A
- FULL CHARGE CUT-OFF CURRENT : 0.3A ± 0.2A
- FULL CHARGE VOLTAGE : 57.4V ± 0.3V

**PACKING :**

1. Net weight: 750g approx.
2. Optional output connectors available contact sales for details.