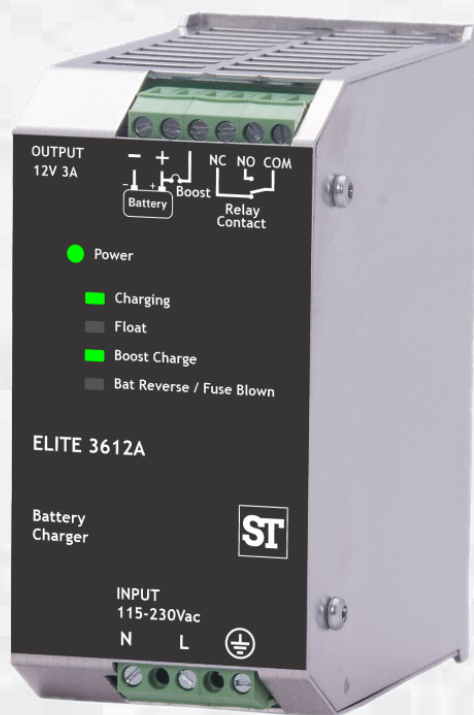




Technical Data Sheet

Elite Series 36



Sifam Tinsley Elite Series 3612 A 1Phase, Universal Input Range 90-280 VAC, 127-396 VDC, High efficiency $\geq 86\%$ & extremely compact (w-h-d) 55X110X105mm & DIN Rail Mountable with protections

Special Features

- Switch Mode Technology
- Automatic 3 Stage Charge Profile
- Boost Charge Function
- Reverse Polarity Protection with Fuse
- LED indicator for Power ON, Charging, Boost Mode, Float Mode, Battery Reverse/ Fuse Blown Connection
- Cooling by free air convection
- DIN Rail Mounting
- Compact size, 3 Year warranty

Input

- Universal single-phase Input

Protections

- Short circuit, Overload, Over voltage, Reverse Polarity Connection, Over Temperature

Technical Specifications

Input Data

Nominal Input Voltage	115/230 Vac
Input Voltage range	90 – 280 Vac 127 – 396 Vdc
Inrush Current (Vn and In Load) I _t	≤ 40 A ≤ 5 msec.
Frequency	45 – 65 Hz ±6%
Input Current (115 – 230 Vac)	1.5 – 0.75 A
AC Input Fuse	4 A

Output

Absorption Voltage (VA)	14.2 V (TYP)
Boost Voltage (VA)	14.4 V (TYP)
Float Voltage (VB)	13.5 V (TYP)
Max. Charging Current (IA) at < 50°C	2.6 A (In)
Max. Charging Current (IA) at 60°C	80% of In (permanent)
Max. Charging Current (IA) at 70°C	60% of In (permanent)
End of charging current (IB)	In X 0.32A ±20 %
Turn-On delay after applying mains voltage	2.5 sec. (max)
Line regulation	< ±0.5 %
Residual Ripple	≤ 120 mV _{pp}
Efficiency	≤ 75 %
Short-circuit Protection	Constant Current
Short-circuit current	Max 1.2 X In +10%
Dissipation power load max (W)	15 W
Over Load protection	Constant Current
Over Voltage Output protection	Yes
Over Temperature Protection	Yes
Parallel connection	No
Recommended Battery Capacity Range (Ah)	9 - 30 Ah
Charge Fail Contact rating (EN60947-4-1) Max. 30 VDC 1A Max. 120 VAC 1A	Resistive load
Min.1mA at 5 VDC	Min permissive load

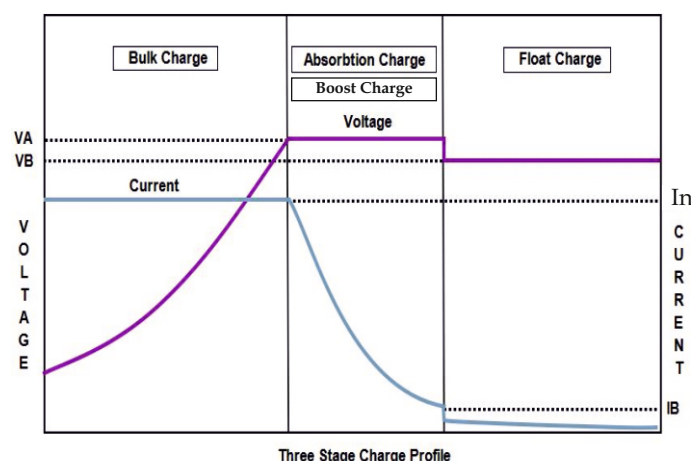
Climatic Data

Ambient Temperature operation	-20°C to +70 °C
Ambient Temperature Storage	-40°C up to +85 °C
Humidity at 25 °C, no condensation	95 %
Cooling	Convection

General Data

Isolation Voltage (In / Out)	3000 Vac
Isolation Voltage (In / PE)	1605 Vac
Isolation Voltage (Out / PE)	500 Vac
Protection Class (EN/IEC 60529)	IP 20
Reliability: MTBF IEC 61709	> 5,00,000 h
Pollution Degree Environment	2
Connection Terminal Blocks Screw Type	2.5 mm ² (24 – 14 AWG)
Vibration (operation)	10 to 500Hz, 2G, 20min/sweep, period - 1Hr, Each along X,Y,Z axes.
Shock	30g in all direction in acc. with IEC 60068-2-27.
Protection class	1 with PE connected

Charging Characteristics



Technical Specifications

Applicable Standards

Norms and certifications

The CE mark in According to EMC 2004/108/EC and Low voltage directive 2006/95/EC.

Electrical Safety

According to IEC/EN 60950 (VDE 0805) EN 50178 (VDE 0160) for assembling device. The unit must be installed according to IEC/EN 60950. Input / Output separation: SELV EN60950-1 and PELV EN 60204-1. Double or reinforced insulation.

EMC Immunity

EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN61000-6-2

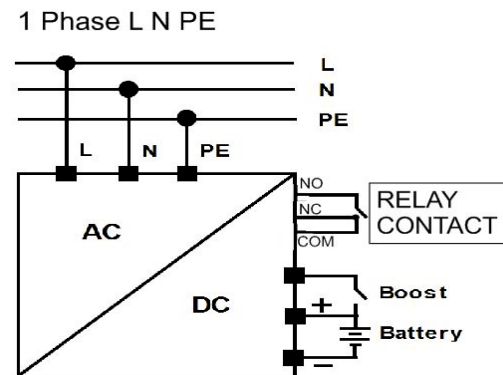
EMC Emission

EN61000-6-4, EN 61000-3-2

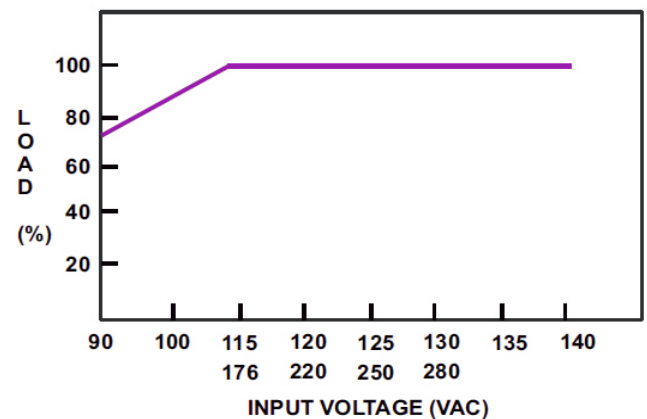
Standards Conformity

EN 60204-1 Safety of Electrical Equipment Machines.

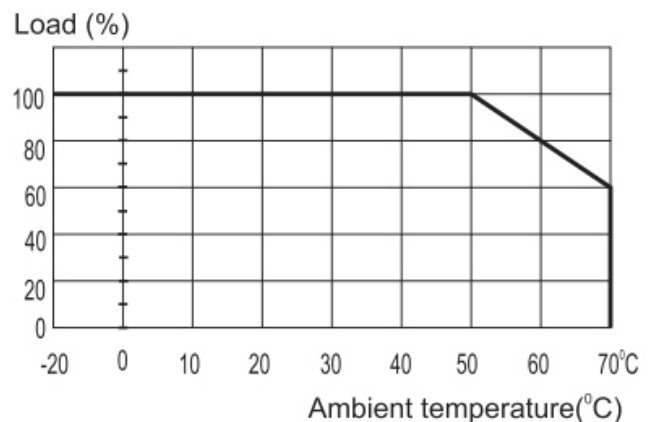
Electrical Connection



Static Characteristics



Derating Curve

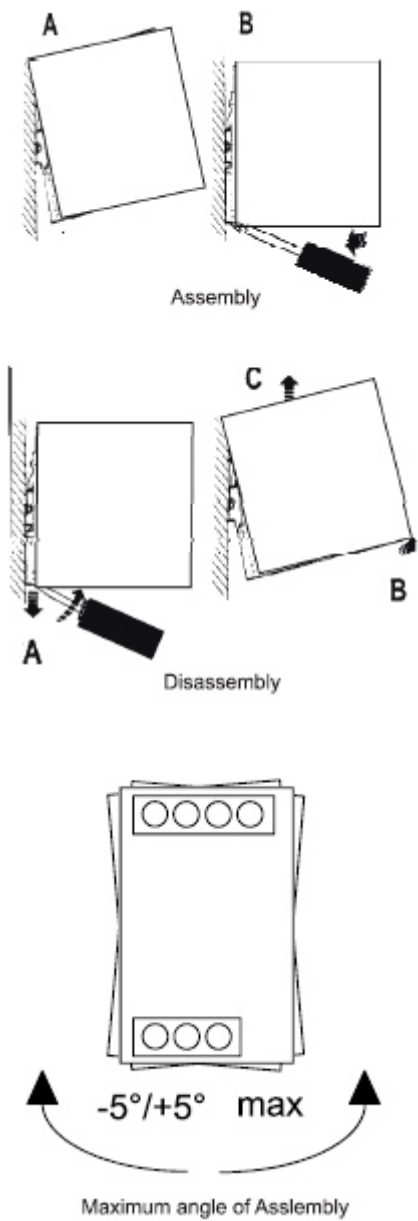


Note :

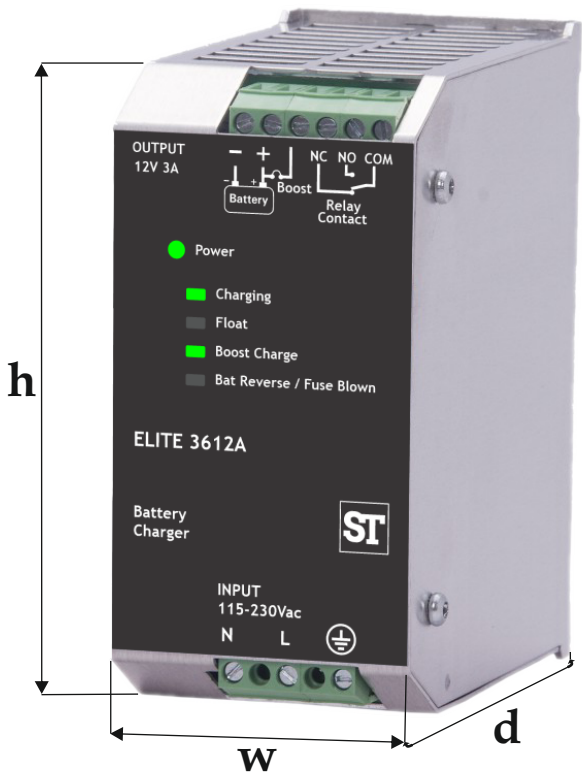
*Refer Battery manufacturers data sheet for their suggestions on acceptance of higher charge rates since charging Battery beyond recommended capacity will increase the charging time and below specified capacity will increase charge rate causing dehydration and grid corrosion on the positive plate which will result in loss of battery capacity.

- 1) All parameters not specifically mentioned are measured at 230VAC input, Rated load and 25°C of ambient temperature.
- 2) Ripple and noise are measured at 20MHz of bandwidth short length lead terminated with a 0.1uF & 47uF parallel capacitor.

Installation



Dimensions Details



w x h x d
55 x 110 x 105
All Dimensions are in mm

Ordering information

Product Code	Bc03-	X	X	X	0	0	0	0	0	0	0	0	0ST
System type of Bc03	1P	1											
Battery Charger model of Bc03	12012A (120W,12V) 12024A (120W, 24V) 3612A (36W, 12V) 12030A (120W, 30V) 7212A (72W, 12V) 7224A (72W, 24V)	A B D E F G											
Relay Output for Bc03	With Relay			0									
Reserved					0	0	0	0	0	0	0	0	0ST