

AGF700 Series

700 Watts

Data Sheet

Total Power: 700 Watts
Input Voltage: 36 - 75 V
of Outputs: Single

SPECIAL FEATURES

- 2:1 wide input range
- Extra wide trim range
- Optimised for high density, small space applications
- Low ripple and noise
- Fixed switching frequency
- Super high efficiency
- High capacitive load capability
- Basic insulation system
- Aluminium substrate
- Functions
- Power good
- Auxiliary power rail

SAFETY

- UL 60950-1
- IEC60950 -1



Electrical Specifications

Input	
Input range	36 - 75 VDC
Efficiency ²	94.5%
Output	
Voltage tolerance	+/-1%
Line regulation	15 mV
Load regulation	60 mV
Noise/ripple	250 mV
Overvoltage protection	Hiccup
Overtemperature protection	Auto restart
Switching frequency	320 KHz
Temperature co-efficient:	±0.02/°C
Isolation	
I/O isolation	1500 VDC min.

Environmental Specifications

Operating ambient temperature range	-40 °C to +85 °C
Storage temperature	-55 °C to +125 °C
Humidity	5% to 95% (non-condensing)
MTBF	1.5 Million hours
RoHS Compliant	

Ordering Information

Model number	Input voltage	Output voltage	Power
AGF700-48S30LT	36-75 Vin	30 V @ 25 A	700 W

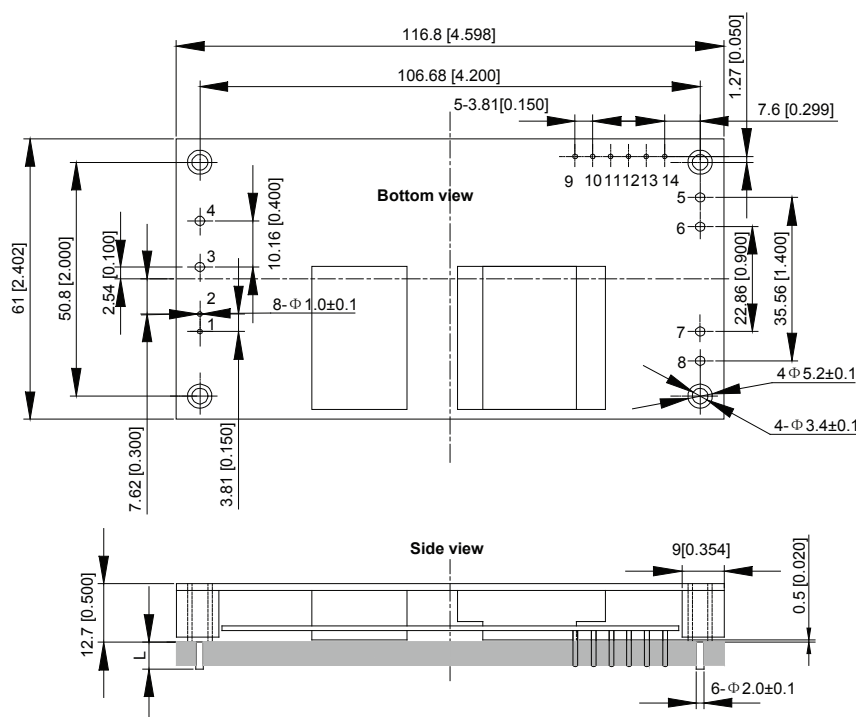
Standard version is negative enable

“-6” = 3.8mm pin length

“-L” = RoHS 6 compliance

“-T” = Through-hole fixture

Mechanical Drawings



Unit: mm[inch]

Bottom view: pin on upside

Tolerance: X.Xmm±0.5mm[X.X in.±0.02in.]

X.XXmm±0.25mm[X.XX in.±0.01in.]

Pin length option

Device code suffix	L
-4	4.8 mm ± 0.5 mm
-6	3.8 mm ± 0.5 mm
-8	2.8 mm ± 0.5 mm
None	5.8 mm ± 0.5 mm

Pin Designations

Pin No.	Name	Function
1	+On/Off	Remote control
2	-On/Off	Remote control
3	V_{in+}	Positive input voltage
4	V_{in-}	Negative input voltage
5,6	V_{o-}	Negative output voltage
7,8	V_{o+}	Positive output voltage
9	AUX	Auxiliary voltage
10	IOG	Inverter operation good
11	NC	
12	Trim	Trim terminal
13	+S	Remote sensing +
14	-S	Remote sensing -

Notes:

1. All specifications are subject to change without notice. Mechanical drawings are for reference only.
2. Warranty: 2 years
3. Label and logo appearance may vary from what is shown on mechanical drawings.

WORLDWIDE OFFICES

Americas

2900 South Diablo Way
Suite B100
Tempe, AZ 85282, USA
+1 888 412 7832

Europe (UK)

Ground Floor Offices, Barberry House
4 Harbour Buildings, Waterfront West
Brierley Hill, West Midlands
DY5 1LN, UK
+44 (0) 1384 842 211

Asia (HK)

14/F, Lu Plaza
2 Wing Yip Street
Kwun Tong, Kowloon
Hong Kong
+852 2176 3333

ARTESYNTM
An Advanced Energy Company

www.artesyn.com

Artesyn Embedded Technologies, Artesyn Embedded Power, Artesyn, and all Artesyn related logos are trademarks and service marks of Artesyn Embedded Technologies, Inc. All other names and logos referred to are trade names, trademarks, or registered trademarks of their respective owners. Specifications are subject to change without notice. © 2019 Artesyn Embedded Technologies, Inc. All rights reserved. For full legal terms and conditions, please visit www.artesyn.com/legal.

For more information: www.artesyn.com
For support: productsupport.ep@artesyn.com