

Delivering leading edge, innovative power solutions for more than 30 years....

Model:FE30D4HG3-F

May 7, 2024

FE30D4HG3-F

Information

Model Number	FE30D4HG3-F
Description	FE30D4HG3-F, Medical Power Supply, Open Frame/Internal, DC-DC, , Input Rating: 18-42VDC, 4 Positon Terminal Block, Output Rating: 300 Watts, Power rating with convection cooling (W) , 12VV in 0.1V increments, Approvals: CE; China RoHS; LPS; VCCI; WEEE;

Model Picture



Agency Documents

CE EC-Declaration	https://www.globtek.com/pdf/ec_declaration/a0Oa000000JTPQEA5
RoHS/RoHS2 Declaration	https://www.globtek.com/pdf/rohs_cert/a0Oa000000JTPQEA5
REACH Declaration	https://www.globtek.com/pdf/iso_certificates/REACH.pdf
Conflict Minerals Declaration	https://www.globtek.com/pdf/conflict-minerals.pdf

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MODEL PARAMETERS

Type	Open Frame/Internal
Technology	DC-DC
Category	Medical Power Supply
Input Voltage	18-42VDC
I/P Amps (A)	12.0A
Wattage (W)	300.0
Vout Range (V)	12V
Efficiency Level	IV
Ingress Protection	
Size (mm)	160*83.5*36.6

PROPRIETARY INFORMATION

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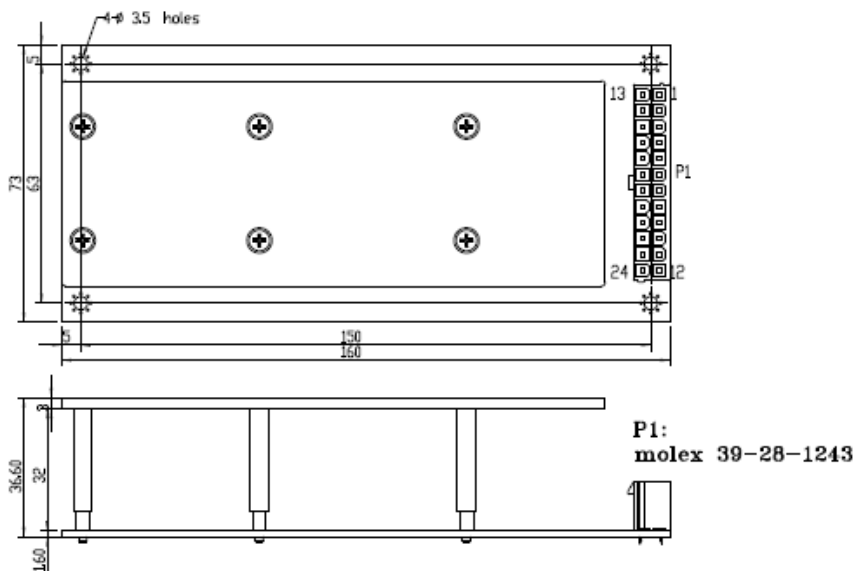
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ENCLOSURE



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RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
FE30D4HG3-F	12 V	20.83	249.96	RFQ
FE30I4HG3-F	24 V	10.42	250.08	RFQ

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SPECIFICATIONS

A) ELECTRICAL SPECIFICATIONS:

01. Input Voltage: 18-42 VDC
02. Input Frequency: DC
03. EMI filter: EN55022 Class A, FCC Part 15
04. Inrush Current: $\leq 12A$
05. Input Current: 19.6A@ 18VDC
06. Isolation: 2828VDC (Input to Output)
07. Output current No Load to Full Load, No Minimum Load Required
08. Output Power 300W Max
09. Line Regulation: $\pm 0.05\%$
10. Load Regulation: $\pm 1\%$ on both outputs
11. Output Ripple (Vp-p): 1% Pk to Pk
12. Transient Response: 2% Maximum deviation; returns to initial condition in 1 msec max.

B) PROTECTION

1. Over-Voltage Protection :Voltage 115% to 135%. DC must be recycled to restart the unit.
2. Over Current/ Short Circuit: Hiccup method.
3. Overload Protection: The overload protection feature will reduce the output voltage to a safe dissipation level when the output power rating exceeds 125% of maximum rated power. The unit will automatically return to regulation upon removal of the overload.
4. Long Term Stability: 0.01% after 20 minute warm-up.

C) ENVIRONMENTAL SPECIFICATIONS:

1. Humidity: Up to 95% non-condensing.
2. Storage Temperature: -40° to $+95^{\circ}C$ ambient temperature
3. Operating Temperature: -40° to $+95^{\circ}C$ ambient temperature
4. Maximum Temperature: $95^{\circ}C$
5. Cooling: Convection

D) ENCLOSURE

1. Size: 160*83.5*36.6 mm ± 1.0

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DERATING CURVE

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INPUT CONFIGURATION








Description	4 Positon Terminal Block
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Approvals

Logo	Description
	Attention Mark / Refer to operating manual for operating and service instructions
	CE Mark: tested to comply with EN55022:2006/A1:2007 Class B, EN610003-2, EN610003-3 including EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6N EN61000-4-11; EMI: Complies with EN55011 CLASS B and FCC Part 15B - On label or Molded in case
	CHINA SJ/T 11364-2014, China RoHS Chart: http://www.globtek.com/pdf/F-GT-DJD-8.4.1-006%20China%20RoHS%20Declaration%205-20-22.pdf
	Indoor Use Only - Mark is on the label or Molded in the case
LPS	Limited Power Source 60950
	UKCA Certification
	Japan: Voluntary Control Council for Interference (VCCI)
	WEEE: Complies with EU 2012/19/EU (http://ec.europa.eu/environment/waste/weee/index_en.htm) Mark is on the label or Molded in the case