DS650DC-3 / DS850DC-3

650 - 850 Watt

Distributed Power System

Distributed Power Bulk Front-End
Total Output Power: 650 - 850 Watts
+3.3vdc Stand-by Output
Standard Telco input range -39 V to -72 VDC

DC Input

Connector input shown

Special Features

- 1U X 2U Form Factor
- 15.4W/ in^3
- +12Vdc Output
- +3.3vdc Stand-By
  (5V standby - consult factory)
- No Minimum Load Required
- Hot Plug Operation
- N + 1 Redundant
- Internal OR'ing Fets
- Active Current Sharing
  2PSU Shared from 30% to 100%
  4PSU Shared from 20% to100%
- Built-in Cooling Fan
  (40mm x 28mm)
- I^2C Communication Interface Bus
- EERPOM for FRU Data
- Red/Green Bi-Color LED Status
- Internal Fan Speed Control
- Fan Fail Tach Output Signal
- INTEL, SSI Std. Logic Timing
- INTEL, SSI Std. FRU Data Format
- One Year Warranty

Safety

- UL/cUL 60950 (UL Recognized)
- NEMKO+ CB Report EN60950
- CE Mark
- China CCC

Electrical Specifications

Input	
Input range:	-39 V to -72 Vdc
Efficiency:	> 80% typical
Conducted EMI:	FCC Subpart J EN55022 Class B
Radiated EMI:	FCC Subpart J EN55022 Class B
Hold up time:	1 ms @48 Vdc
Output	
Main DC voltage:	+12 V @ 70 A; DS850DC +12 V @ 52.5 A; DS650DC
Stand-By:	+3.3 Vsb @ 6A (5V @ 4A available)
Adjustment range:	Factory Set, no pot adjustments
Regulation:	+12 Vdc; +5%/-5% +3.3 Vsb; +5%/-5%
Over current:	+12 Vdc; 77A - 105A - DS850DC; +12 Vdc 57.75 A - 78.75 A; DS650DC latches off if overcurrent lasts over 1 second, otherwise it is auto recovery. +3.3 vsb, 9A max (hiccup mode)
Over voltage:	+12 Vdc; 13.2 - 14.4 Vdc +3.3 Vsb; 3.76 - 4.30 Vdc
Under voltage:	+12 Vdc; 9 - 10.8V (latch off)
Turn-on delay:	2 Second max
+12VOutput Rise Time:	10 - 300 mS, Monotonic Rise

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Logic Control	
PS_SEATED	TTL logic LOW if power supply is seated into system connector. This is a short pin. A logic HIGH if the PSU is removed.
PWR GOOD	Active TTL HiIGH when output is within regulation limits.
DC Input OK	A LOW logic level if the input voltage is within allowable limits. A TTL logic HIGH level, and a 5mS early warning signal before 12.0v DC output loss of regulation.
Temp OK	A TTL logic HIGH, when operating within allowable temperature range.
PS_INHIBIT/PS_KILL	When left open power supply operation will be inhibited. When the power supply is inserted into the system, this pin will be pulled low by the system and turn the power supply on.

Environmental Specifications

Operating temperature:	-5° to 50 °C
Storage temperature:	-40 °C to +85 °C
Altitude, operating:	10,000 ft
Electromagnetic susceptibility / Input transients:	-EN61000-3-2, -3-3 -EN61000-4-2, 4.3, 4-4, -4-5, 4-11 Level -EN55024:1998
RoHS & lead-free compliant (no tantalum caps.)	
Humidity:	20 to 90% RH, non-condensing
Shock and vibration specificatons complies with Astec Std. Specifications, Q3205	
MTBF (observed)	500K Hrs at 80% load

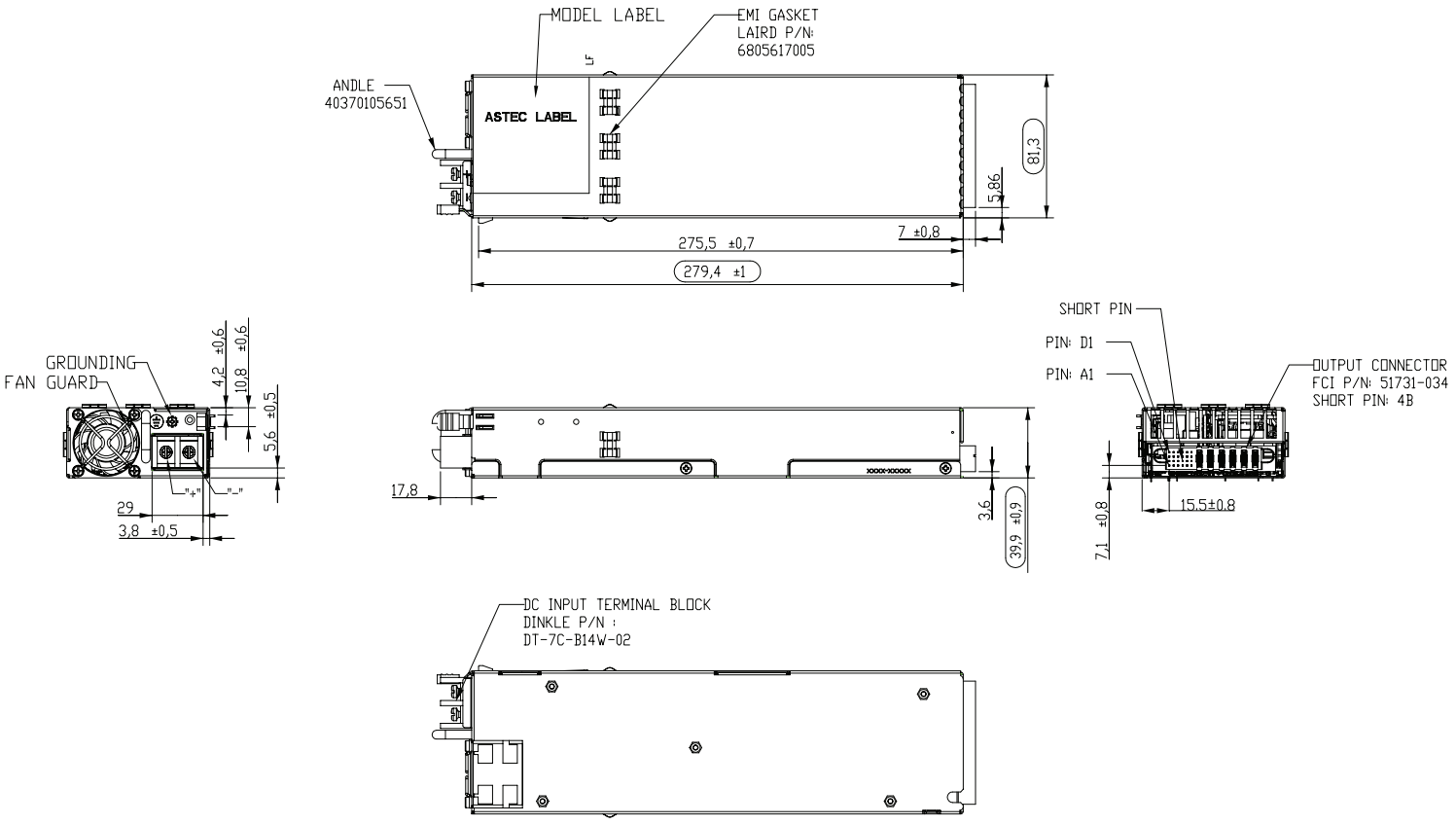
Ordering Information

Output	Nominal Output Voltage Set Point	Set Point Tolerance	Total Regulation	Minimum Current	Maximum Current	Output Ripple P/P
DS850DC-3	12.0 Vdc 3.3 Vsb*	± 0.2% ± 1%	± 5% ± 5%	0 A 0 A	70 A 6.0 A	120 mV 50 mV
DS650DC-3	12.0 Vdc 3.3 Vsb*	± 0.2% ± 1%	± 5% ± 5%	0 A 0 A	52.5 A 6.0 A	120 mV 50 mV

*For 5 Vsb, consult marketing.

Mechanical Drawing

Power Supply Condition	LED Green/Amber
No AC power to all PSU	OFF
AC present/Standby outpus ON, Main output OFF	Blinking Green
Power supply DC outputs ON and OK	Solid Green
Main output failure (OCP, OVP, UVP)	Blinking Amber
Fan Fail, OTP, Standby output OCP/UVP	Solid Amber



Terminal block input shown

DC Output Connector Pinout Assignment

Male connector as viewed from the rear of the supply:

D1	D2	D3	D4	D5	D6	PB1	PB2	PB3	PB4	PB5	PB6
C1	C2	C3	C4	C5	C6						
B1	B2	B3	B4	B5	B6						
A1	A2	A3	A4	A5	A6						

P1 - Power Supply Side

1. FCI Power Blade 51721 series
   51721-10002406AA

2. Molex Power Connector
   SD-87667 series
   87667-7002

Mating Connector (System side)

1. FCI Power Blade
   51741-10002406CC
   Strait Pins

2. FCI Power Blade
   51761-10002406AA
   Right Angle

Pin	Signal Name
PB 1	+12V RETURN
PB 2	+12V RETURN
PB 3	+12V RETURN
PB 4	+12V
PB 5	+12V
PB 6	+12V
A1	PS_ON
A2	+12V RMT SENSE RETURN
A3	TEMP_OK
A4	PS_SEATED (Power Supply Seated)
A5	+3V3 STAND-BY
A6	+3V3SB RETURN
B1	DC input OK
B2	+12V RMT SENSE
B3	+12V CURRENT SHARE
B4	PS_INHIBIT / PS_KILL
B5	+3V3 STAND-BY
B6	+3V3SB RETURN
C1	SDA (I2C Data Signal)
C2	SCL (I2C Clock Signal)*
C3	POWER GOOD
C4	FAN FAIL (Fan Fail Signal)
C5	+3V3 STAND-BY
C6	+3V3SB RETURN
D1	A0 (I2C Address BIT 0 Signal)
D2	A1 (I2C Address BIT 1 Signal)
D3	S_INT (Alarm)
D4	+3V3 STAND-BY RMT SENSE
D5	+3V3 STAND-BY
D6	+3V3SB RETURN

*Supports I^2C standard mode (100 kHz) only

Americas
5810 Van Allen Way
Carlsbad, CA 92008
USA
Telephone: +1 760 930 4600
Facsimile: +1 760 930 0698

Europe (UK)
Waterfront Business Park
Merry Hill, Dudley
West Midlands, DY5 1LX
United Kingdom
Telephone: +44 (0) 1384 842 211
Facsimile: +44 (0) 1384 843 355

Asia (HK)
14/F, Lu Plaza
2 Wing Yip Street
Kwun Tong, Kowloon
Hong Kong
Telephone: +852 2176 3333
Facsimile: +852 2176 3888

For global contact, visit:

www.Emerson.com/EmbeddedPower

techsupport.embeddedpower@emerson.com

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Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001
Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

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Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:
moschip.ru
moschip.ru_4
moschip.ru_6
moschip.ru_9