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81mm Front End AC-DC Power Converter

FEATURES

- Extended Power Range to 1300W
- 1.57" (1U) x 11.0" x 3.2"
- 92% efficiency at 50% FL
- 12VDC Main output
- 3.3VSB or 5VSB output (20W)
- >23W/in³ power density
- N+1 Redundancy Capable; hot plug/swap (up to 8 modules in parallel)
- Active current sharing on 12V main output; integral MOSFET ORING
- Over-Voltage, Over-Current; Over-Temperature Protection
- Internal variable speed cooling fans
- PMBus[™] Power Management Bus
- RoHS Compliant



The D1U3CS-W-1300F-12-Hx4EC are high efficiency 1300W power factor corrected front end supplies with a 12V main output and a 5V or 3.3V (20W) standby. Active current sharing is provided to allow up to eight (8) supplies to be operated in parallel. The supplies may be hot plugged and include integral isolation devices.

The power modules are fully protected from overload and overvoltage and are able to auto-recover from overtemperature faults. Status LEDS are provided on the front panel and additional control and status reporting is provided by hardware logic signals and via a PMBus[™] digital interface.

A low profile sub 1U height enclosure provides a power density of >23W/in³ that is ideal for delivering reliable, efficient power to servers, workstations, storage systems and other 12V distributed power systems.

ORDERING GUIDE								
		Power	Output	Main	Standby			
Model Number		ie & Temp 64V; 40°C)	AC Line & Temp (90-264V; 50°C)	Output	Standby Air Output		irflow	
D1U3CS-W-1300F-12-HA4EC D1U3CS-W-1300F-12-HC4EC	1:	300W	1200W	12V	5V 3.3V	Back	to Front	
INPUT CHARACTERISTICS								
Parameter		Conditions		Min	Тур	Max	Units	
Voltage Operating Range				90	115/230	264	Vac	
Input Frequency				47	50/60	63	Hz	
Turn-on Input Voltage		Ramp Up		81	85	89	Vaa	
Turn-off Input Voltage		Ramp Dow	'n	70.5	74.3	78.0	Vac	
Maximum Current @ VIN = 200	Vac	1300W @	40°C (max)			8	Armo	
Maximum Current @ VIN = 90Vac		1200W @	50°C (max)			15	Arms	
Inrush Current		Cold start b	between 0 to 200ms			25	Apk	
Power Factor		At 230Vac;	FL		0.99			
Efficiency (230Vac) excluding fan load		20% FL		88				
		50% FL		92			%	
				92				

OUTPUT VOLTAGE CHARATERISTICS

Output Voltage	Parameter	Conditions	Min	Тур	Мах	Units
	Voltage Set Point Accuracy			12		Vdc
	Line & Load Regulation		11.4		12.6	Vuc
	Ripple & Noise ¹	20MHz Bandwidth			150	mV P-P
12V	Output Current (230Vac)		0		108.3	Α
	Output Current (120Vac)				108.3	
	Output Current (90Vac)				100	
	Load Capacitance				30,000	μF
	Voltage Set Point			3.3		Vda
	Line & Load Regulation		3.2		3.4	Vdc
3.3VSB	Ripple Voltage & Noise ¹	20MHz Bandwidth			100	mV P-P
	Output Current		0		6	Α
	Load Capacitance				10,000	μF
	Voltage Set Point			5.0		Vdo
	Line & Load Regulation		4.85		5.1	Vdc
5VSB	Ripple Voltage & Noise ¹	20MHz Bandwidth			50	mV P-P
	Output Current		0		4	А
	Load Capacitance				10,000	μF

Ripple and noise are measurements are to be performed with a parallel combination of a 0.1µF ceramic capacitor and 10µF tantalum capacitance on each of the power module output measurement nodes. A short coaxial cable shall be used.



Available now at

3D Models of AC-DC **Power Supplies** in STEP, IGES, or PDF format **Click here**

www.murata-ps.com/en/3d/acdc.html













www.murata-ps.com/support

81mm Front End AC-DC Power Converter

Parameter	Conditions			Min	Тур	Max	Units
Remote Sense			load (total loop for positive & negative connections)	IVIIII	٩٤ı	120	mV
Output Rise (Monotonic)		10% to 95% rise tim	· · · · · · · · · · · · · · · · · · ·	No volta	age excursio		1110
		AC Ramp Up				2.5	S
Startup Time		PS_ON activation				2.0	ms
		12V, 50-100% step l	nad 10/us		150 600		1113
Transient Response		3.3/5VSB 50-100% step in	•		165/250		mV
Current Sharing Accurac	y (up to 8 in parallel)	At 100% load	step loau 17/µs		103/230	±7	%
Hot Swap Transients		At 100 /0 10du				5	%
Hold Up Time		FL (Full Load)		12		5	ms
ENVIRONMENTAL CHAR	ACTERISTICS						
Parameter	AUTENISTIUS	Conditions		Min	Тур	Max	Units
Storage Temperature Ra	inde	Non-Condensing		-40	1.76	70	onito
• •		1200W		0		50	°C
Operating Temperature I	Range	1300W		0		40	Ŭ
Operating Humidity		Non-Condensing		5		90	
Storage Humidity		non conconding		5		95	%
Altitude (no derating at 4	40°C)			3000		55	m
Shock	10 0/	Operating		0000		30	G
Sinusoidal Vibration		Operational, 2.0G; 5-	-500Hz			00	u
MTBF		Telcordia SR-332 M1		500			K Hours
Safety Approvals (Standa	ards)	ANSI/UL 60950-1-20 IEC 60950-1:2005, (EN 60950-1:2006 +	2 nd Edition) + A1:2009 A11:2009 +A1 :2010 +A12:2011				
	ards)	ANSI/UL 60950-1-20 IEC 60950-1:2005, (2 EN 60950-1:2006 + CE Marking per LVD	011 2 nd Edition) + A1:2009 A11:2009 +A1 :2010 +A12:2011 DIRECTIVE 2006/95/ECS				
Input Fusing	ards)	ANSI/UL 60950-1-20 IEC 60950-1:2005, (2 EN 60950-1:2006 + CE Marking per LVD	011 2 nd Edition) + A1:2009 A11:2009 +A1 :2010 +A12:2011 DIRECTIVE 2006/95/ECS				
Input Fusing	ards)	ANSI/UL 60950-1-20 IEC 60950-1:2005, (2 EN 60950-1:2006 + CE Marking per LVD	011 2 nd Edition) + A1:2009 A11:2009 +A1 :2010 +A12:2011 DIRECTIVE 2006/95/ECS tted fast blow in AC line oost Converter				
Safety Approvals (Standa Input Fusing Switching Frequency Material Flammability	ards)	ANSI/UL 60950-1-20 IEC 60950-1:2005, (2 EN 60950-1:2006 + CE Marking per LVD 1 Internal 16A/250V ra 90KHz for the PFC Bo	011 2 nd Edition) + A1:2009 A11:2009 +A1 :2010 +A12:2011 DIRECTIVE 2006/95/ECS tted fast blow in AC line oost Converter				
Input Fusing Switching Frequency Material Flammability	ards)	ANSI/UL 60950-1-20 IEC 60950-1:2005, (2 EN 60950-1:2006 + CE Marking per LVD Internal 16A/250V ra 90KHz for the PFC Ba 130KHZ for the Main	011 2 nd Edition) + A1:2009 A11:2009 +A1 :2010 +A12:2011 DIRECTIVE 2006/95/ECS tted fast blow in AC line oost Converter			3.15/1.43	Lbs/kg
Input Fusing Switching Frequency Material Flammability Weight PROTECTION CHARACT	ERISTICS	ANSI/UL 60950-1-20 IEC 60950-1:2005, (2 EN 60950-1:2006 + CE Marking per LVD Internal 16A/250V ra 90KHz for the PFC Ba 130KHZ for the Main	011 2 nd Edition) + A1:2009 A11:2009 +A1 :2010 +A12:2011 DIRECTIVE 2006/95/ECS tted fast blow in AC line oost Converter I Output Converter				
Input Fusing Switching Frequency Material Flammability Weight PROTECTION CHARACT Output Voltage		ANSI/UL 60950-1-20 IEC 60950-1:2005, (2 EN 60950-1:2006 + CE Marking per LVD Internal 16A/250V ra 90KHz for the PFC Ba 130KHZ for the Main	011 2 nd Edition) + A1:2009 A11:2009 +A1 :2010 +A12:2011 DIRECTIVE 2006/95/ECS tted fast blow in AC line oost Converter	Min.	Тур.	Max.	Units
Input Fusing Switching Frequency	TERISTICS Parameter Over-Temperature	ANSI/UL 60950-1-20 IEC 60950-1:2005, (2 EN 60950-1:2006 + CE Marking per LVD Internal 16A/250V ra 90KHz for the PFC Ba 130KHZ for the Main	011 2 nd Edition) + A1:2009 A11:2009 +A1 :2010 +A12:2011 DIRECTIVE 2006/95/ECS tted fast blow in AC line oost Converter I Output Converter	57		Max. 63	Units °C
Input Fusing Switching Frequency Material Flammability Weight PROTECTION CHARACT Output Voltage	TERISTICS Parameter	ANSI/UL 60950-1-20 IEC 60950-1:2005, (2 EN 60950-1:2006 + CE Marking per LVD Internal 16A/250V ra 90KHz for the PFC Ba 130KHZ for the Main	011 2 nd Edition) + A1:2009 A11:2009 +A1 :2010 +A12:2011 DIRECTIVE 2006/95/ECS ited fast blow in AC line oost Converter 0 Output Converter Conditions		Тур.	Max. 63 14.5	Units
Input Fusing Switching Frequency Material Flammability Weight PROTECTION CHARACT Output Voltage N/A	FERISTICS Parameter Over-Temperature Over-Voltage Over-Current (1300W)	ANSI/UL 60950-1-20 IEC 60950-1:2005, (2 EN 60950-1:2006 + CE Marking per LVD Internal 16A/250V ra 90KHz for the PFC Ba 130KHZ for the Main	011 2 nd Edition) + A1:2009 A11:2009 +A1 :2010 +A12:2011 DIRECTIVE 2006/95/ECS ited fast blow in AC line oost Converter 0 Output Converter Conditions Auto re-start	57	Тур.	Max. 63	Units °C V
Input Fusing Switching Frequency Material Flammability Weight PROTECTION CHARACT Output Voltage N/A	TERISTICS Parameter Over-Temperature Over-Voltage	ANSI/UL 60950-1-20 IEC 60950-1:2005, (2 EN 60950-1:2006 + CE Marking per LVD Internal 16A/250V ra 90KHz for the PFC Ba 130KHZ for the Main	011 2 nd Edition) + A1:2009 A11:2009 +A1 :2010 +A12:2011 DIRECTIVE 2006/95/ECS ted fast blow in AC line oost Converter 0 Output Converter 0 Output Converter 1 Output Converter 1 Output Converter 2 Conditions Auto re-start Latching Latching Latching	57 13.3 115 108	Тур.	Max. 63 14.5 125 118	Units °C
Input Fusing Switching Frequency Material Flammability Weight PROTECTION CHARACT Output Voltage N/A 12V (Main)	FERISTICS Parameter Over-Temperature Over-Voltage Over-Current (1300W) Over-Current (1200W) Over-Voltage	ANSI/UL 60950-1-20 IEC 60950-1:2005, (2 EN 60950-1:2006 + CE Marking per LVD Internal 16A/250V ra 90KHz for the PFC Ba 130KHZ for the Main	011 2 nd Edition) + A1:2009 A11:2009 +A1 :2010 +A12:2011 DIRECTIVE 2006/95/ECS ted fast blow in AC line oost Converter 1 Output Converter Conditions Auto re-start Latching Latching Latching Latching Latching	57 13.3 115 108 3.9	Тур.	Max. 63 14.5 125 118 4.3	Units °C V
Input Fusing Switching Frequency Material Flammability Weight PROTECTION CHARACT Output Voltage N/A 12V (Main)	ERISTICS Parameter Over-Temperature Over-Voltage Over-Current (1300W) Over-Current (1200W) Over-Voltage Over-Current (1200W)	ANSI/UL 60950-1-20 IEC 60950-1:2005, (2 EN 60950-1:2006 + CE Marking per LVD Internal 16A/250V ra 90KHz for the PFC Ba 130KHZ for the Main	011 2 nd Edition) + A1:2009 A11:2009 +A1 :2010 +A12:2011 DIRECTIVE 2006/95/ECS ted fast blow in AC line oost Converter 1 Output Converter 1 Output Converter Conditions Auto re-start Latching Latching Latching Latching Latching Auto-recovery	57 13.3 115 108 3.9 6.5	Тур.	Max. 63 14.5 125 118 4.3 9.0	Units °C V A V A
Input Fusing Switching Frequency Material Flammability Weight PROTECTION CHARACT Output Voltage N/A 12V (Main) 3.3VSB	ERISTICS Parameter Over-Temperature Over-Voltage Over-Current (1300W) Over-Current (1200W) Over-Voltage Over-Current Over-Current Over-Voltage Over-Voltage Over-Voltage Over-Voltage	ANSI/UL 60950-1-20 IEC 60950-1:2005, (2 EN 60950-1:2006 + CE Marking per LVD Internal 16A/250V ra 90KHz for the PFC Ba 130KHZ for the Main	011 2 nd Edition) + A1:2009 A11:2009 +A1 :2010 +A12:2011 DIRECTIVE 2006/95/ECS ted fast blow in AC line oost Converter 1 Output Converter Conditions Auto re-start Latching Latching Latching Latching Latching Auto-recovery Latching	57 13.3 115 108 3.9 6.5 5.6	Тур.	Max. 63 14.5 125 118 4.3 9.0 6.0	Units °C V A V A V
Input Fusing Switching Frequency Material Flammability Weight PROTECTION CHARACT Output Voltage N/A 12V (Main) 3.3VSB	ERISTICS Parameter Over-Temperature Over-Voltage Over-Current (1300W) Over-Current (1200W) Over-Voltage Over-Current (1200W)	ANSI/UL 60950-1-20 IEC 60950-1:2005, (2 EN 60950-1:2006 + CE Marking per LVD Internal 16A/250V ra 90KHz for the PFC Ba 130KHZ for the Main	011 2 nd Edition) + A1:2009 A11:2009 +A1 :2010 +A12:2011 DIRECTIVE 2006/95/ECS ted fast blow in AC line oost Converter 1 Output Converter 1 Output Converter Conditions Auto re-start Latching Latching Latching Latching Latching Auto-recovery	57 13.3 115 108 3.9 6.5	Тур.	Max. 63 14.5 125 118 4.3 9.0	Units °C V A V A
Input Fusing Switching Frequency Material Flammability Weight PROTECTION CHARACT Output Voltage N/A 12V (Main) 3.3VSB 5VSB ISOLATION CHARACTER	ERISTICS Parameter Over-Temperature Over-Voltage Over-Current (1300W) Over-Current (1200W) Over-Voltage Over-Voltage Over-Voltage Over-Voltage Over-Voltage Over-Voltage Over-Current Over-Voltage Over-Current	ANSI/UL 60950-1-20 IEC 60950-1:2005, (2 EN 60950-1:2006 + CE Marking per LVD Internal 16A/250V ra 90KHz for the PFC Bo 130KHZ for the Main UL94-V0	011 2 nd Edition) + A1:2009 A11:2009 +A1 :2010 +A12:2011 DIRECTIVE 2006/95/ECS ted fast blow in AC line oost Converter 1 Output Converter Conditions Auto re-start Latching Latching Latching Latching Latching Auto-recovery Latching	57 13.3 115 108 3.9 6.5 5.6 5.0	Typ. 60	Max. 63 14.5 125 118 4.3 9.0 6.0 6.5	Units °C V A V A V A
Input Fusing Switching Frequency Material Flammability Weight PROTECTION CHARACT Output Voltage N/A 12V (Main) 3.3VSB 5VSB ISOLATION CHARACTER	ERISTICS Parameter Over-Temperature Over-Voltage Over-Current (1300W) Over-Current (1200W) Over-Voltage Over-Voltage Over-Voltage Over-Voltage Over-Voltage Over-Voltage Over-Current Over-Voltage Over-Current	ANSI/UL 60950-1-20 IEC 60950-1:2005, (2 EN 60950-1:2006 + CE Marking per LVD Internal 16A/250V ra 90KHz for the PFC Bo 130KHZ for the Main UL94-V0	011 2 nd Edition) + A1:2009 A11:2009 +A1 :2010 +A12:2011 DIRECTIVE 2006/95/ECS ted fast blow in AC line oost Converter 0 Output Converter 0 Output Converter Conditions Auto re-start Latching Latching Latching Auto-recovery Latching Auto-recovery	57 13.3 115 108 3.9 6.5 5.6 5.0 Min.	Тур.	Max. 63 14.5 125 118 4.3 9.0 6.0	Units °C V A V A V A Units
Input Fusing Switching Frequency Material Flammability Weight PROTECTION CHARACT Output Voltage N/A 12V (Main) 3.3VSB 5VSB ISOLATION CHARACTER Parameter	ERISTICS Parameter Over-Temperature Over-Voltage Over-Current (1300W) Over-Current (1200W) Over-Voltage Over-Voltage Over-Current Over-Voltage Over-Voltage Over-Current Over-Voltage Over-Current Over-Voltage Over-Current RISTICS	ANSI/UL 60950-1-20 IEC 60950-1:2005, (2 EN 60950-1:2006 + CE Marking per LVD Internal 16A/250V ra 90KHz for the PFC Ba 130KHZ for the Main UL94-V0	2011 2 nd Edition) + A1:2009 A11:2009 +A1 :2010 +A12:2011 DIRECTIVE 2006/95/ECS tied fast blow in AC line coost Converter 0 Output Converter 0 Output Converter Conditions Auto re-start Latching Latching Latching Latching Auto-recovery Latching Auto-recovery -enforced	57 13.3 115 108 3.9 6.5 5.6 5.0 Min. 3000	Typ. 60	Max. 63 14.5 125 118 4.3 9.0 6.0 6.5	Units °C V A V A V A Units Vrms
Input Fusing Switching Frequency Material Flammability Weight PROTECTION CHARACT Output Voltage N/A 12V (Main) 3.3VSB 5VSB ISOLATION CHARACTER	ERISTICS Parameter Over-Temperature Over-Voltage Over-Current (1300W) Over-Current (1200W) Over-Voltage Over-Voltage Over-Current Over-Voltage Over-Voltage Over-Current Over-Voltage Over-Current Over-Voltage Over-Current RISTICS	ANSI/UL 60950-1-20 IEC 60950-1:2005, (2 EN 60950-1:2006 + CE Marking per LVD Internal 16A/250V ra 90KHz for the PFC Bo 130KHZ for the Main UL94-V0	D11 2 nd Edition) + A1:2009 A11:2009 +A1 :2010 +A12:2011 DIRECTIVE 2006/95/ECS ted fast blow in AC line oost Converter 0 Output Converter 0 Output Converter Conditions Auto re-start Latching Latching Latching Latching Auto-recovery Latching Auto-recovery -enforced tsic	57 13.3 115 108 3.9 6.5 5.6 5.0 Min.	Typ. 60	Max. 63 14.5 125 118 4.3 9.0 6.0 6.5	Units °C V A V A V A V A Units

81mm Front End AC-DC Power Converter

STATUS INDICATORS				
Conditions		LED Status		
Standby Rail ON; Main Output OFF; AC Present & correct			Blinking Green	
Standby Rail ON; Main Output ON			Solid Green	
Main Output overcurrent; undervoltage, overvoltage warn	ing		Blinking Amber	
FAN_FAULT; overtemperature; standby rail overcurrent, M	ain Output overcurrent or ov	vervoltage	Red	
EMISSIONS AND IMMUNITY				
Characteristic	Standard	Compliance		
Input Current Harmonics	IEC/EN 61000-3-2	Complies with Class A Limits		
Voltage Fluctuation & Flicker	IEC/EN 61000-3-3	Complies		
Conducted Emissions	FCC 47 CFR Part 15 CSIPR 22/EN55022	Class B		
ESD Immunity	IEC/EN 61000-4-2;	Level 3; Criteria A		
Radiated Field Immunity	IEC/EN 61000-4-3	Level 3; Criteria B		
Electrical Fast Transients/Burst Immunity	IEC/EN 61000-4-4	Level 3; Criteria B		
Surge Immunity	IEC/EN 61000-4-5	Level 3; Criteria A		
RF Conducted Immunity	IEC/EN 61000-4-6	Level 3; Criteria A		
Magnetic Field Immunity	IEC/EN 61000-4-8	3A/m; Criteria B		
Voltage Dips & Interruptions	IEC/EN 61000-4-11	230Vin, 50% load, Phase 0	0°, Dip 100% Duration 10ms (A) °, Dip 100% Duration 20ms (VSB:A, V1:A) 0°, Dip 100% Duration > 12ms (VSB:A, V1:B)	

OUTPUT CONNECTOR & SIGNAL INTERFACE

DC Output and Signal Connector: FCI# 51731-057-LF

				r			r		-	r	
D1	D2	D3	D4	D5	D6						
C1	C2	C3	C4	C5	C6			550	55.4	DDC	DDO
B1	B2	B3	B4	B5	B6	PB1	PB2	PB3	PB4	PB5	PB6
A1	A2	A3	A4	A5	A6						

NB: B4 is the shortest "last make, first break" sequenced signal pin

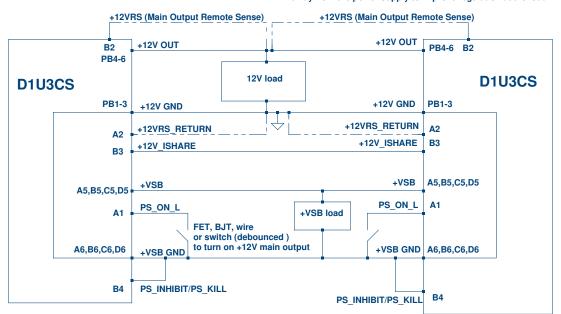
Blade Assignment	Function	Description	Current (Amps per Pin
PB1, PB2, PB3	+12V GND	Main Output Voltage, Return	30
PB4, PB5, PB6	+12V OUT	Main Output Voltage	30
Signal Pin Assignment	Signal Name	Description	
A1	PS_ON_L	An input pulled up via an internal 10K ohm to the Standby rail. When pulled low (via an open collector/drain drive or connection to GND) the Main Output will be turned on/enabled)	N/A
A2	+12VRS_RETURN	Main Output Remote Sense (-VE/Return)	N/A
A3	TEMP_OK	TTL compatible Logic HIGH provided when the temperature is within the allowable range of operation.	
A4	PS_SEATED	Internally connected to GND; when the power module is correctly seated the corresponding mating connector pin is grounded and therefore allows detection that the power module is in situ.	N/A
A5, B5, C5, D5	+VSB	Standby Voltage Output	2.0
A6, B6, C6, D6	+VSB GND	Standby Voltage Output, Return/GND	2.0
B1	AC_0K	Incoming AC Source voltage "OK" (present and within operational limits)	N/A
B2	+12VRS	Main 12V output remote sense line	N/A
B3	+12V_ISHARE	Main 12V output current share bus	N/A
B4	PS_INHIBIT/PS_KILL	This is the shortest "last make, first break" (last to mate in the sequence). If left open circuit then the main output will be inhibited (no output). When inserted in to the system slot this pin must be pulled "low" by the system to enable (turn on) the Main output and only after all other pins are connected and the power module is correctly seated.	N/A
C1	SDA	I ² C Serial Data Line	N/A
C2	SCL	I ² C Serial Clock Line	N/A

81mm Front End AC-DC Power Converter

Signal Pin Assignment	Signal Name		Description				
C3	PWR_GD	Power Good signal. An ac	ctive TTL HIGH signifies when the out	tput is within regulation limits.	N/A		
C4	FAN_FAIL	Fan Fail signal (failure or	locked rotor)		N/A		
D1	A0	I ² C LSB (Least Significan	² C LSB (Least Significant Bit) Address Line				
D2	A1	I ² C MSB (Most Significan	I ² C MSB (Most Significant Bit) Address Line				
D3	S_INT	System Interrupt	System Interrupt				
D4	N/A	Reserved; no end user co	Reserved; no end user connection				
MATING CONNECTOR							
Supplier Press Fit, Straight		Press Fit, Straight	Press Fit, Right Angle	Solder Straight	Solder Right Angle		
FCI			51761-10002406AA				

WIRING DIAGRAM FOR OUTPUT

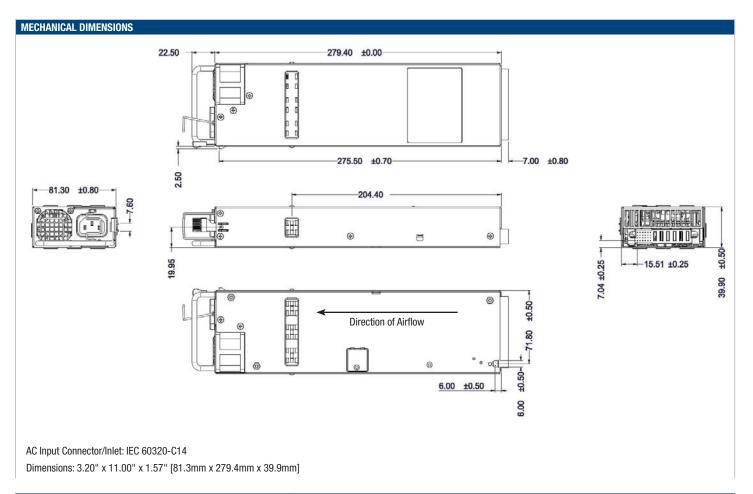
Dotted lines show optional remote sense connections. Optional remote sense lines can be attached to a load that is a distance away from the power supply to improve regulation at the load.



CURRENT SHARING NOTES

- Main 12VDC Output: Analogue active share bus. The ISHARE bus (Pin B3) must be connected on all sharing modules. It is not required that the SENSE signals are connected to the remote load for current share 1. to operate correctly.
- 2. Up to eight (8) power modules can be connected in parallel (non-redundant) or N+1 configuration. The current share bus is analogue bi-directional (can source or sink current from the ISHARE bus). The voltage of the bus would measure 8VDC for a single power module at 100% load; for two (2) modules sharing a common load the ISHARE bus voltage would be 4V for a perfect 50/50 current share scenario.
- 3. VSTANDBY output power modules can also be connected in parallel and have internal output isolation devices; however the combined available power is limited to that available from a single power module (3.3V or 5V: 20W) irrespective of the number of modules connected in parallel.

81mm Front End AC-DC Power Converter



OPTIONAL ACCESSORIES	
Description	Part Number

•		
D1U3CS-12 Output Interface Connector Card	D1U3CS-12-CONC	
APPLICATION NOTES		
Document Number	Description	Link
ACAN-41	D1U3CS-12-CONC Output Interface Connector Card	www.murata-ps.com/data/apnotes/acan-41.pdf
ACAN-49	D1U3CS-12 Communications Protocol	www.murata-ps.com/data/apnotes/acan-49.pdf

Murata Power Solutions, Inc. 11 Cabot Boulevard, Mansfield, MA 02048-1151 U.S.A.

ISO 9001 and 14001 REGISTERED



This product is subject to the following operating requirements and the Life and Safety Critical Application Sales Policy: Refer to: http://www.murata-ps.com/requirements/

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