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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





54mm 1U Front End AC-DC Power Supply Converter

FEATURES
650W output power
94% efficiency at 50% load
12V main output
12V standby output
1U height:
■ 2.15" x 9.0" x 1.57"
54.5mm x 228.6mm x 40mm
Full digital control
21.4 Watts per cubic inch density
N+1 redundancy capable, including hot plugging
 Active (analogue) current sharing on 12V main output; ORING FET
Overvoltage, Overcurrent, Overtemperature
protection
Internal cooling fan (variable speed)
■ PMBus [™] /I2C interface with status indicators
RoHS compliant
Two Year Warranty



Available now at: www.murata-ps.com/en/3d/acdc.html

12V standby output
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- DallQ assessiont

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Two Year Warranty	

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PRODUCT OVERVIEW

The D1U54P-W-650-12-HBxC series are very high efficiency 650 watt power factor corrected front end supplies with a 12V main output and a 12V Standby. An active (analogue) current share characteristic is provided to allow units to operate in parallel. The power supply may be hot plugged; recovers from overtemperature faults, and has status LEDs on the front panel in addition to hardware signal logic and PMBus™ status signals. The low profile 1U package and 21.4W/cubic inch power density make them ideal for delivering reliable, efficient power to networking equipment, workstations, storage systems and other 12V distributed power architectures.

ORDERING GUIDE					
Part Number	Murata Internal Part Number	Power Output 90 to 264Vac	Main Output	Standby Output	Airflow
D1U54P-W-650-12-HB3C	M1877	650W	12Vdc	12Vdc	Front to Back
D1U54P-W-650-12-HB4C	M1876	0000	12000	TZVUU	Back to front

INPUT CHARACTERISTICS

Parameter	Conditions	Min.	Nom.	Max.	Units
Input Source Voltage Operating Range		90	115/230	264	Vac
Input Source Frequency		47	50/60	63	Hz
Turn-on Input Voltage	Ramp up	74		84	Vac
Turn-off Input Voltage	Ramp down	70		80	vac
Maximum current at Vin = 100Vac	650W			10	Arms
Inrush Current	Cold start between 0 to 200msec			25	Apk
Power Factor	At 230Vac, 100% load	0.96			
Power Factor	At 230Vac, 50% load	0.95			
	At 230Vac, 20% load	90			
Efficiency (excluding fan load)	At 230Vac, 50% load	94			%
	At 230Vac, 100% load	91			

OUTPUT VOLTAGE CHARACTERISTICS							
Nominal Output Voltage	Parameter	Conditions	Min.	Тур.	Max.	Units	
	Output Set Point Accuracy	50% load; Tamb =25°C	11.96	12.00	12.04	Vdc	
	Line and Load Regulation	Setpoint; temperature; line and load	-1.0%		+1.0	%	
12V	Ripple Voltage & Noise ^{1, 2}	20MHz Bandwidth			120	mV p-p	
	Output Current Range		0		54.2	A	
	Load Capacitance		500		4000	μF	
	Output Set Point Accuracy	50% load; Tamb = $25^{\circ}C$	11.96	12.00	12.04		
12VSB	Line and Load Regulation	Setpoint; temperature; line and load	11.7		12.3	Vdc	
	Ripple Voltage & Noise ¹	20MHz Bandwidth			120	mV p-p	
	Output Current		0		2	А	

Ripple and noise are measured with 0.1 µF of ceramic capacitance and 10 µF of tantalum capacitance on each of the power supply outputs. A short coaxial cable to the measurement 'scope input, is used.

² Measurements assume the use of the minimum load capacitance as specified for the main 12V output and a minimum load of 5%.

Below 5% loading the overall voltage deviation shall be within ±500mV due to zero load "skip" cycle mode of operation.



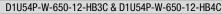


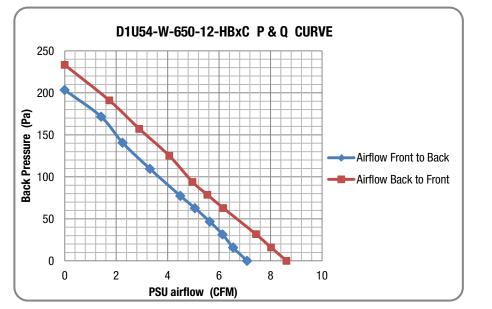
54mm 1U Front End AC-DC Power Supply Converter

OUTPUT CHARACTERISTICS					
Parameter	Conditions	Min.	Тур.	Max.	Units
Startup Time	AC ramp up Note: Following a "turn off" of the 12V Main output (for any reason whatsoever) the output shall not be allowed to "turn on" again for 1sec (even if all necessary operating conditions are met).			3	S
Transient Response	Main 12V, 50% load step, 1A/µs di/dt			±5	%
	12VSB, 50% load step, 1A/µs di/dt			500	μs
Current sharing accuracy (Main 12V output)	>10% load; (* percentage of full load)			±5*	%
Hot Swap Transients				±5	%
Holdup Time (Total Effective Hold Up - See Timing Waveforms)	Full AC Input Source Range; full load	12			ms

	ENVIRONMENTAL CHARACTERISTICS	i de la companya de l			
Parameter	Conditions	Min.	Тур.	Max.	Units
Storage Temperature Range		-40		70	°C
Operating Temperature Range	90V-264Vac, 650W	-5		50	
Operating Humidity	Noncondensing; +45°C	5		90	%
Storage Humidity		5		95	90
Altitude (without derating at 40°C)				3000	m
Shock	30G non-operating				
Operational Vibration	Sine sweep; 5-200Hz, 2G; random vibration, 5-500Hz, 1.11G				
MTBF(Target)	Per Telcordia SR-332 M1C1 @40°C		576K		hrs
Safety Approvals	CAN/CSA C22.2 No 60950-1-07, Am.1:2011, Am 2:2014 ANSI/UL 60950-1-2014 IEC60950-1:2005 (2nd Ed.), Am 1:2009 + Am 2:2013 EN 60950-1:2006+A11:2009 +A1:2010 +A12:2011 +A2:2013 BSMI CNS14336-1 (099/09/30); CNS13438 ((095/06/01) CCC GB4943.1-2011; GB9254-1-2008; GB17625, 1-2012				
Input Fuse	Power Supply has internal 12.5A/250V fast blow fuse on the AC line input				
Weight	1.63 lbs (0.741 kg)				

AIRFLOW; PRESSURE VS. FLOW (PQ) CURVES





Notes:

1. The above curves represent performance based upon the use of a 20mm thickness fan.

- 2. Curves recorded at room ambient (circa 25°C).
- 3. Curves generated with intermal fan running at 100% duty cycle



54mm 1U Front End AC-DC Power Supply Converter

PROTECTIO	N CHARACTERISTICS	

Output	Parameter	Conditions	Min.	Тур.	Max.	Units
	Overtemperature (intake)	Autorestart with 4°C hysteresis for recovery (warning issued at 70°C)		75		°C
	Overvoltage	Latching	13.0		14.5	V
12V	Overcurrent (target)	The output shall shutdown when an overcurrent condition is detected. It will auto restart after 1sec; however if the overcurrent condition is redetected the output will once again shutdown. The output will once again re-start, however if the overcurrent condition persists it will latch of after the fifth unsuccessful attempt. To reset the latch it will be necessary to toggle the PS_ON_L signal (B4) or recycle the incoming AC source.	60		70	A
	Overvoltage	Latching	13.0		14.5	V
12VSB	Overcurrent	The output shall shutdown when an overcurrent is detected. It will auto restart after 2sec; however if the overcurrent is re-detected the output will once again shutdown. This cycle will occur indefinitely while the overcurrent condition	2.5		3.5	А
ISOLATION	CHARACTERISTICS					
Parameter		Conditions	Min.	Тур.	Max.	Units
Insulation Safety Rating		Input to Output - Reinforced	3000			Vrms
		Input to Chassis - Basic	1500			Vrms
Isolation		Output to Chassis	500			Vdc

EMISSIONS AND IMMUNITY		
Characteristic	Standard	Compliance
Input Current Harmonics	IEC/EN 61000-3-2	Complies
Voltage Fluctuation and Flicker	IEC/EN 61000-3-3	Complies
Conducted Emissions	FCC 47 CFR Part 15 CISPR 22/EN55022	Class A with 6dB margin
ESD Immunity	IEC/EN 61000-4-2	Level 4 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 A
Surge Immunity	IEC/EN 61000-4-5	 6kV common mode and differential mode, unit shall fail safely[#]. 4kV common mode and differential mode, unit shall survive; the output may shut down and recover automatically (Criteria B) or require manual intervention (Criteria C)[#]. 2kV common and differential mode, unit passes criteria A (normal performance)*
RF Conducted Immunity	IEC/EN 61000-4-6	Level 3 criteria A
Magnetic Field Immunity	IEC/EN 61000-4-8	3 A/m criteria B
Voltage Dips, Interruptions	IEC/EN 61000-4-11	230Vin, 80% load, Phase 0°, Dip 100% Duration 10ms (A) 230Vin, 50% load, Phase 0°, Dip 100% Duration 20ms (VSB:A, V1:B) 230Vin, 100% load, Phase 0°, Dip 100% Duration > 20ms (VSB:A, V1:B)

230Vin, 100% load, Phase 0°, Dip 100% Duration > 20ms (VSB, V1:B)

* Impedance is 2 ohms for ±2KV differential and common mode to comply with NEBS GR-1089 limits. Maximum load capacitance is required for these tests.

* Tests above ±2KV will be performed for information purposes to IEC/EN66100-4-5 with 12ohm impedance, differential & common mode.

LED NAME	LED MODE	LED STATE/OPERATION	DESCRIPTION
Input	OK	Solid Green	Input voltage operating within normal specified range
Input	OV/UV WARNING	Blinking Green	Input voltage operating in: 1) overvoltage warning, or 2) undervoltage warning range
Input	OFF OR FAULT	Off	Input voltage operating: 1) above overvoltage range, or 2) below undervoltage range, or 3) not present
Output	POWER GOOD	Solid Green	Main output and standby output enabled with no power supply warning or fault detected
Output	STANDBY	Blinking Green	Standby output enabled with no power supply warning or fault detected
Output	WARNING	Blinking Amber	Power supply warning detected as per PMBus STATUS_X reporting bytes [•]
ouput			by to 3



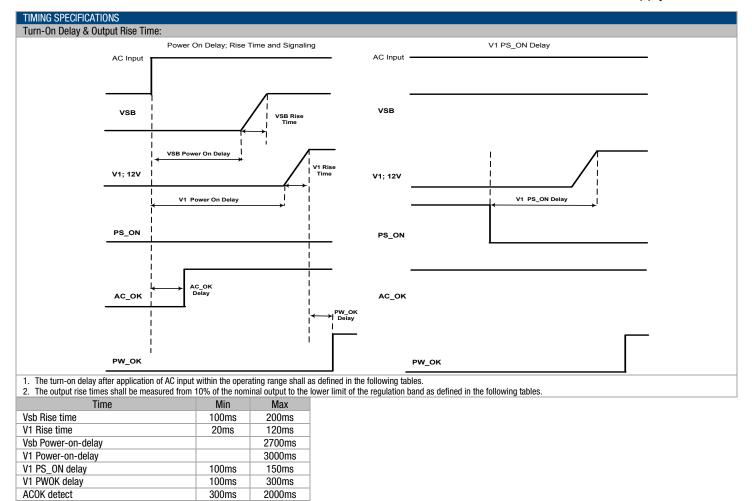
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*LED fault/warning operation follows PMBus fault/warning reporting status flags but will not be 'sticky'; (i.e. if the fault stimulus is removed, even though the actual fault/warning is still showing (still "sticky" and not cleared), the relevant LED will revert to normal (non -fault) operation.

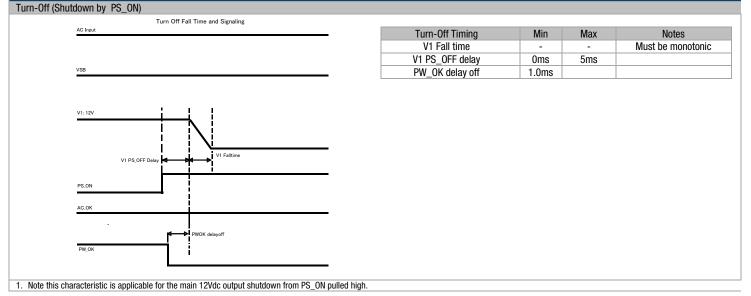
STATUS AND CONTROL	SIGNALS		
Signal Name	I/O	Description	Interface Details
INPUT_OK (AC Source)	Output	The signal output is driven high when input source is available and within acceptable limits. The output is driven low to indicate loss of input power. There is a minimum of 1ms pre-warning time before the signal is driven low prior to the PWR_OK signal going low. The power supply must ensure that this interface signal provides accurate status when AC power is lost.	Pulled up internally via 10K to 3.3Vdc. A logic high >2.0Vdc A logic low <0.8Vdc Driven low by internal CMOS buffer (open drain output).
PW_OK (Output OK)	Output	The signal is asserted, driven high, by the power supply to indicate that all outputs are valid. If any of the outputs fail then this output will be hi-Z or driven low. The output is driven low to indicate that the Main output is outside of lower limit of regulation (11.4Vdc).	Pulled up internally via 10K to 3.3Vdc. A logic high >2.0Vdc A logic low <0.8Vdc Driven low by internal CMOS buffer (open drain output).
SMB_ALERT (FAULT/WARNING)	Output	The signal output is driven low to indicate that the power supply has detected a warning or fault and is intended to alert the system. This output must be driven high when the power is operating correctly (within specified limits). The signal will revert to a high level when the warning/fault stimulus (that caused the alert) is removed.	Pulled up internally via 10K to 3.3Vdc. A logic high >2.0Vdc A logic low <0.8Vdc Driven low by internal CMOS buffer (open drain output).
PRESENT_L (Power Supply Absent)	Output	The signal is used to detect the presence (installed) of a PSU by the host system. The signal is connected to PSU logic SGND within the power module.	Passive connection to +VSB_Return. A logic low <0.8Vdc
PS_ON (Power Supply Enable/Disable	Input	This signal is pulled up internally to the internal housekeeping supply (within the power supply). The power supply main 12Vdc output will be enabled when this signal is pulled low to +VSB_Return. In the low state the signal input shall not source more than 1mA of current. The 12Vdc output will be disabled when the input is driven higher than 2.4V, or open circuited. Cycling this signal shall clear latched fault conditions.	Pulled up internally via 10K to 3.3Vdc. A logic high >2.0Vdc A logic low <0.8Vdc Input is via CMOS Schmitt trigger buffer.
PS_KILL	Input	This signal is used during hot swap to disable the main output during hot swap extraction. The input is pulled up internally to the internal housekeeping supply (within the power supply). The signal is provided on a short (lagging pin) and should be connected to +VSB_Return.	A logic high >2.0Vdc A logic low <0.8Vdc Input is via CMOS Schmitt trigger
ADDR (Address Select)	Input	An analogue input that is used to set the address of the internal slave devices (EEPROM and microprocessor) used for digital communications. Connection of a suitable resistor to +VSB_Return, in conjunction with an internal resistor divider chain, will configure the required address.	DC voltage between the limits of 0 and +3.3Vdc.
SCL (Serial Clock)	Both	A serial clock line compatible with PMBus [™] Power Systems Management Protocol Part 1 – General Requirements Rev 1.1. No additional internal capacitance is added that would affect the speed of the bus. The signal is provided with a series isolator device to disconnect the internal power supply bus in the event that the power module is unpowered.	V⊫ is 0.8V maximum Vo∟ is 0.4V maximum when sinking 3mA V⊮ is 2.1V minimum
SDA (Serial Data)	Both	A serial data line compatible with PMBus [™] Power Systems Management Protocol Part 1 – General Requirements Rev 1.1. The signal is provided with a series isolator device to disconnect the internal power supply bus in the event that the power module is unpowered,	V⊫ is 0.8V maximum Vo∟ is 0.4V maximum when sinking 3mA V⊮ is 2.1V minimum
V1_SENSE V1SENSE_RTN	Input	Remote sense connections intended to be connected at and sense the voltage at the point of load. The voltage sense will interact with the internal module regulation loop to compensate for voltage drops due to connection resistance between the output connector and the load. If remote sense compensation is not required then the voltage can be configured for local sense by: 1. V1_SENSE directly connected to power blades 6 to 10 (inclusive) 2. V1_SENSE_RTN directly connected to power blades 1 to 5 (inclusive)	Compensation for a up to 0.12Vdc total connection drop (output and return connections).
ISHARE	Bi- Directional Analogue Bus	The current sharing signal is connected between sharing units (forming an ISHARE bus). It is an input and/or an output (bi-directional analogue bus) as the voltage on the line controls the current share between sharing units. A power supply will respond to a change in this voltage but a power supply can also change the voltage depending on the load drawn from it. On a single unit the voltage on the pin (and the common ISHARE bus would read 8VDC at 100% load (module capability). For two identical units sharing the same 100% load this would read 4VDC for perfect current sharing (i.e. 50% module load capability per unit).	Analogue voltage: +8V maximum; 10K to +12V_RTN



54mm 1U Front End AC-DC Power Supply Converter



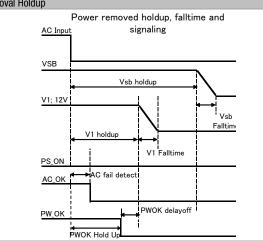
TIMING SPECIFICATIONS





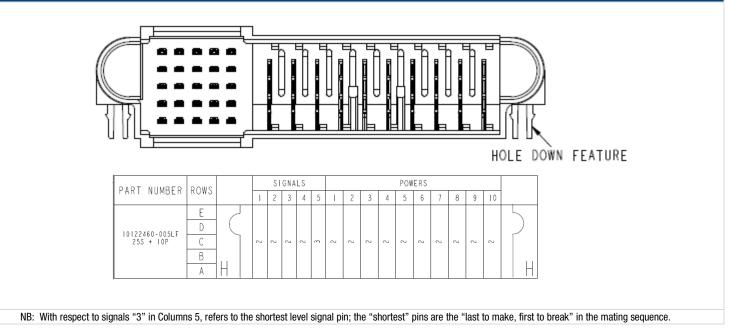
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TIMING SPECIFICATIONS Power Removal Holdup



Power Removal Timing	Min	Max	Notes
Vsb holdup	40ms	-	
V1 holdup (Effective Total)	12ms	-	Full load
AC fail detect	-	40ms	
PWOK delay off	1.0ms		Full load
PWOK Hold Up	11.0ms		Full load

OUTPUT CONNECTOR & SIGNAL INTERFACE; FCI PN 10122460-005LF



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D1U54P-W-650-12-HBxC Series

Murata Power Solutions

OUTPUT CONNECTOR PIN ASSIGNMENTS - D1U54P-W-650-12-HBx0

54mm 1U Front End AC-DC Power Supply Converter

(Power SupplyFCI PN 10122460-005LF Pin Signal Name Comments 6, 7, 8, 9, 10 V1 (+12V0UT) +12V Main Output A1 +VSB Standby Output B1 +VSB Standby Output C1 +VSB Standby Output D1 +VSB Standby Output D1 +VSB Standby Output A2 +VSB_Return Standby Output Return B2 +VSB_Return Standby Output Return B2 +VSB_Return Standby Output Return C2 Unused No End User Connection D2 Unused No End User Connection E2 Unused No End User Connection B3 Unused No End User Connection C3 SDA I ² C Address Protocol Selectori; (Select address by appropriate pull down resistor – See table below) B3 Unused No End User Connection C3 SDA I ² C Serial Data Line C3 SDA I ² C Serial Data Line C4 SMB_ALERT Alert signal t			IS - D1U54P-W-650-12-HBXC
6, 7, 8, 9, 10V1 (+12V0UT)+12V Main Output1, 2, 3, 4, 5+12V RTM/PGND+12V Main Output ReturnA1+VSBStandby OutputB1+VSBStandby OutputC1+VSBStandby OutputD1+VSBStandby OutputE1+VSBStandby OutputA2+VSB_ReturnStandby Output ReturnB2+VSB_ReturnStandby Output ReturnB2+VSB_ReturnStandby Output ReturnC2UnusedNo End User ConnectionC2UnusedNo End User ConnectionC2UnusedNo End User ConnectionB3UnusedNo End User ConnectionC3SDAI²C Sardaress Protocol Selection; (Select address by appropriate pull down resistor – See table below)B3UnusedNo End User ConnectionC3SDAI²C Serial Data LineD3V1_SENSE_R-VE Remote Sense ReturnE3V1_SENSE_R-VE Remote SenseA4SCLI²C Serial Clock LineB4PS_ON_LRemote On/Off (Enable/Disable)C4SMB_ALERTAlert signal to host systemD4UnusedNo End User ConnectionE4AC_OKAC input Source Present & "OK"A5PS_KILLPower Supply "kill"; short pin			Comments
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D2UnusedNo End User ConnectionE2UnusedNo End User ConnectionA3ADDRI²C Address Protocol Selection; (Select address by appropriate pull down resistor – See table below)B3UnusedNo End User ConnectionC3SDAI²C Serial Data LineD3V1_SENSE_R-VE Remote Sense ReturnE3V1_SENSE+VE Remote SenseA4SCLI²C Serial Clock LineB4PS_ON_LRemote On/Off (Enable/Disable)C4SMB_ALERTAlert signal to host systemD4UnusedNo End User ConnectionE4AC_OKAC Input Source Present & "OK"A5PS_KILLPower Supply "kill"; short pin	B2	+VSB_Return	Standby Output Return
E2UnusedNo End User ConnectionA3ADDRI²C Address Protocol Selection; (Select address by appropriate pull down resistor – See table below)B3UnusedNo End User ConnectionC3SDAI²C Serial Data LineD3V1_SENSE_R-VE Remote Sense ReturnE3V1_SENSE+ VE Remote SenseA4SCLI²C Serial Clock LineB4PS_ON_LRemote On/Off (Enable/Disable)C4SMB_ALERTAlert signal to host systemD4UnusedNo End User ConnectionE4AC_OKAC Input Source Present & "OK"A5PS_KILLPower Supply "kill"; short pin	C2	Unused	No End User Connection
A3ADDRI²C Address Protocol Selection; (Select address by appropriate pull down resistor – See table below)B3UnusedNo End User ConnectionC3SDAI²C Serial Data LineD3V1_SENSE_R-VE Remote Sense ReturnE3V1_SENSE+ VE Remote SenseA4SCLI²C Serial Clock LineB4PS_ON_LRemote On/Off (Enable/Disable)C4SMB_ALERTAlert signal to host systemD4UnusedNo End User ConnectionE4AC_OKAC Input Source Present & "OK"A5PS_KILLPower Supply "kill"; short pin	D2	Unused	No End User Connection
B3UnusedNo End User ConnectionC3SDAI ² C Serial Data LineD3V1_SENSE_R-VE Remote Sense ReturnE3V1_SENSE+VE Remote SenseA4SCLI ² C Serial Clock LineB4PS_ON_LRemote On/Off (Enable/Disable)C4SMB_ALERTAlert signal to host systemD4UnusedNo End User ConnectionE4AC_OKAC Input Source Present & "OK"A5PS_KILLPower Supply "kill"; short pin	E2	Unused	
C3SDAI²C Serial Data LineD3V1_SENSE_R-VE Remote Sense ReturnE3V1_SENSE+VE Remote SenseA4SCLI²C Serial Clock LineB4PS_ON_LRemote On/Off (Enable/Disable)C4SMB_ALERTAlert signal to host systemD4UnusedNo End User ConnectionE4AC_OKAC Input Source Present & "OK"A5PS_KILLPower Supply "kill"; short pin	A3	ADDR	I ² C Address Protocol Selection; (Select address by appropriate pull down resistor – See table below)
D3V1_SENSE_R-VE Remote Sense ReturnE3V1_SENSE+VE Remote SenseA4SCLI²C Serial Clock LineB4PS_ON_LRemote On/Off (Enable/Disable)C4SMB_ALERTAlert signal to host systemD4UnusedNo End User ConnectionE4AC_OKAC Input Source Present & "OK"A5PS_KILLPower Supply "kill"; short pin	B3	Unused	No End User Connection
E3V1_SENSE+VE Remote SenseA4SCLI²C Serial Clock LineB4PS_ON_LRemote On/Off (Enable/Disable)C4SMB_ALERTAlert signal to host systemD4UnusedNo End User ConnectionE4AC_OKAC Input Source Present & "OK"A5PS_KILLPower Supply "kill"; short pin	C3	SDA	I ² C Serial Data Line
A4SCLI²C Serial Clock LineB4PS_ON_LRemote On/Off (Enable/Disable)C4SMB_ALERTAlert signal to host systemD4UnusedNo End User ConnectionE4AC_OKAC Input Source Present & "OK"A5PS_KILLPower Supply "kill"; short pin	D3	V1_SENSE_R	-VE Remote Sense Return
B4 PS_ON_L Remote On/Off (Enable/Disable) C4 SMB_ALERT Alert signal to host system D4 Unused No End User Connection E4 AC_OK AC Input Source Present & "OK" A5 PS_KILL Power Supply "kill"; short pin	E3	V1_SENSE	+VE Remote Sense
C4 SMB_ALERT Alert signal to host system D4 Unused No End User Connection E4 AC_OK AC Input Source Present & "OK" A5 PS_KILL Power Supply "kill"; short pin	A4	SCL	I ² C Serial Clock Line
D4 Unused No End User Connection E4 AC_OK AC Input Source Present & "OK" A5 PS_KILL Power Supply "kill"; short pin	B4	PS_ON_L	Remote On/Off (Enable/Disable)
E4 AC_0K AC Input Source Present & "0K" A5 PS_KILL Power Supply "kill"; short pin	C4	SMB_ALERT	Alert signal to host system
A5 PS_KILL Power Supply "kill"; short pin	D4	Unused	No End User Connection
A5 PS_KILL Power Supply "kill"; short pin	E4	AC_OK	AC Input Source Present & "OK"
	A5	PS_KILL	
	B5	ISHARE	
C5 PW_0K Power "0K"; short pin	C5	PW_0K	Power "OK"; short pin
D5 Unused No End User Connection	D5	Unused	No End User Connection
E5 PRESENT_L Power Module Present; short pin	E5	PRESENT_L	Power Module Present; short pin

MATING CONNECTOR			
Part Number	Description		
TE Connectivity 2-1926739-5	Right Angle		
FCI 10108888-R10253SLF	Right Angle		

DDR pin (A3) resistor	Power Supply Main Controller	Power Supply External EEPROM
to GND (K-ohm)*	(Serial Communications Slave Address)	(Serial Communications Slave Address)
0.82	0xB0	0xA0
2.7	0xB2	0xA2
5.6	0xB4	0xA4
8.2	0xB6	0xA6
15	0xB8	0xA8
27	0xBA	0xAA
56	0xBC	0xAC
180	0xBE	0xAE

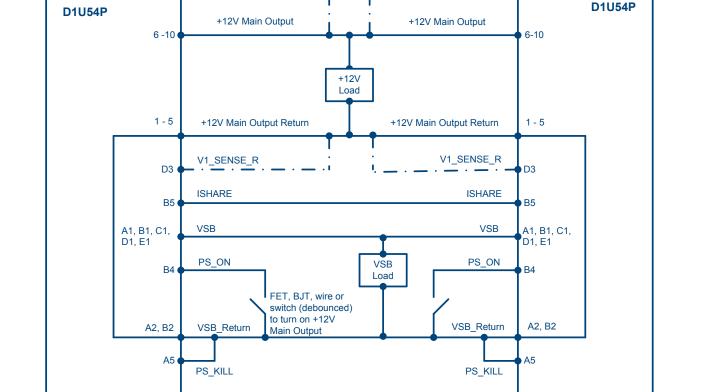
* The resistor shall be +/-5% tolerance



muRata I

WIRING DIAGRAM FOR OUTPUT

Murata Power Solutions



V1 SENSE (Main Output Remote Sense)

E3

CURRENT SHARE NOTES

- Main Output: Current sharing is achieved using the active current share method details.) 1.
- Current sharing can be achieved with or without the remote (V_SENSE) connected to the common load. 2.
- +VSB Outputs can be tied together for redundancy but total combined output power must not exceed the rated standby power. The +VSB output has an internal ORING 3. MOSFET for additional redundancy/internal short protection.
- The current sharing pin B5 is connected between sharing units (forming an ISHARE bus). It is an input and/or an output (bi-directional analogue bus) as the voltage on the 4. line controls the current share between sharing units. A power supply will respond to a change in this voltage but a power supply can also change the voltage depending on the load drawn from it. On a single unit the voltage on the pin (and the common ISHARE bus would read 8VDC at 100% load. For two units sharing the same load this would read 4VDC for perfect current sharing (i.e. 50% load per unit).
- The load for both the main 12V and the VSB rails at initial startup shall not be allowed to exceed the capability of a single unit. The load can be increased after a delay of 5. 3sec (minimum), to allow all sharing units to achieve steady state regulation.

MECHANICAL DIMENSIONS

D1U54P-W-650-12-HBxC Series

54mm 1U Front End AC-DC Power Supply Converter

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.

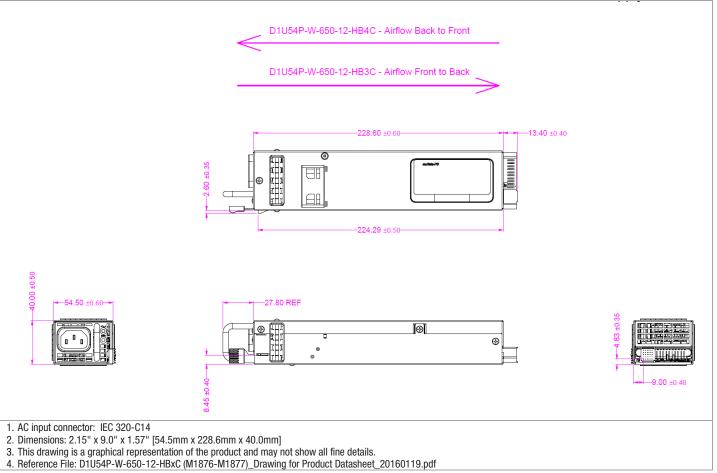
E3

V1_SENSE

(Main Output Remote Sense)



54mm 1U Front End AC-DC Power Supply Converter



OPTIONAL ACCESSORIES				
Description	Part Number		MPS Internal Part Number	
12V D1U54P Output Connector Card	D1U54P-12-CONC		8407001-1	
APPLICATION NOTES				
Document Number	Description	Link		
ACAN-64	D1U54P Output Connector Card	http://power.murata.com/datasheet?/data/apnotes/acan-64.pdf		
ACAN-59	D1U54P-x Communication Protocol	http://power.murata.com/datasheet?/data/apnotes/acan-59.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: <u>http://www.murata-ps.com/requirements/</u>

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