

CC1600 Conduction-Cooled Rectifier

Input: 100-120/200-240 Vac; 1200/1600W capable; Output: 52V

RoHS 6/6 Compliant



Features

- Efficiency exceeding 94%¹
- Compact form factor 11.52" L x 5.29" W x 1.83" H with max 14.3 W/in³ density
- 1600W from nominal 200-240V_{AC} <50°C baseplate
- 1200W from nominal 100-120V_{AC} for V_O < 52V_{DC}, < 50°C baseplate
- Output voltage programmable from 42V – 58V_{DC}
- "Floating" output for positive or negative polarity
- Remote ON/OFF control of the main output by RS485
- Comprehensive input, output and overtemperature protection
- Precision measurement reporting of input/output voltage & current
- Power factor correction (meets EN/IEC 61000-3-2 and EN 60555-2 requirements)
- Redundant, parallel operation with active load sharing
- Completely enclosed, conduction cooled
- Adapter card available with I/O screw terminals
- UL* Recognized, CAN/ CSA† C22.2 specified compliance with IEC60950-1
- CE mark meets 2006/95/EC directive[§]

Applications

- Wide band power amplifier
- Broadcast systems
- Lasers
- Acoustic noise sensitive systems
- LED signage

Description

The CC1600 is a conduction-cooled, industrial-grade rectifier designed for reliable operation in both outdoor and indoor applications. With high-range ac input (200-240 Vac), it can deliver the maximum 1600W at case temperatures less than 50°C. With low-range ac input (100-120 Vac), it delivers up to 1200W at case temperatures less than 50°C.

The CC1600 has an extremely wide programmable output voltage capability. Featuring high-density, fully enclosed, conduction-cooled packaging, it is designed for minimal space utilization

* UL is a registered trademark of Underwriters Laboratories, Inc.

† CSA is a registered trademark of Canadian Standards Association.

‡ VDE is a trademark of Verband Deutscher Elektrotechniker e.V.

§ This product is intended for integration into end-user equipment. All CE marking procedures of end-user equipment should be followed. (The CE mark is placed on selected products.)

** ISO is a registered trademark of the International Organization of Standards

¹ At output voltages exceeding 52V_{DC}

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Absolute Maximum Ratings

Stresses in excess of the absolute maximum ratings can cause permanent damage to the device. These are absolute stress ratings only, functional operation of the device is not implied at these or any other conditions in excess of those given in the operations sections of the data sheet. Exposure to absolute maximum ratings for extended periods can adversely affect the device reliability.

Parameter	Symbol	Min	Max	Unit
Input Voltage: Continuous	V_{IN}	0	264	V_{AC}
Operating Case Temperature (sink side) ²	T_C	-10	75	°C
Storage Temperature	T_{stg}	-40	85	°C
Input Isolation voltage to Frame (100% factory Hi-Pot tested)			1500	V_{AC}
Output Isolation voltage to Frame (100% factory Hi-Pot tested)			500	V_{AC}

Electrical Specifications

Unless otherwise indicated, specifications apply over all operating input voltage, $V_o=52V_{DC}$, resistive load, and case temperature $T_C \leq 50^\circ\text{C}$ (where derating starts). T_C is measured in the middle of the heat-sink side.

INPUT					
Parameter	Symbol	Min	Typ	Max	Unit
Low voltage Turn ON	V_{IN}		85	90	V_{AC}
Operating Input Voltage					
Low-line range		90	100 – 120	175	
High-line range		176	200 - 240	264	
Voltage Swell (no damage)				275	
Low voltage Turn OFF			80	85	
Hysteresis			5		
High voltage Turn ON	V_{IN}		267		V_{AC}
High voltage Turn OFF			272		
Hysteresis			5		
Frequency	F_{IN}	45		65	Hz
Full-Load Input Current at $V_{IN} =$ 90-100 V_{AC} , $P_{OUT}=1200W$ 110-145 V_{AC} , $P_{OUT}=1200W$ 230 V_{AC} , $P_{OUT}=1600W$	I_{IN}		15.1 12.1 7.6		A_{RMS}
Inrush Current (90-264 V_{AC} , 25°C, excluding X-Capacitor charging)	I_{IN}			25	A_{PK}
Idle Power (230 V_{AC} , $P_{OUT}=0$)	P_{IN}		7	10	W
Output OFF					
Output ON			15	20	
Leakage Current to Earth (250 V_{AC} , 60Hz)	I_{IN}			3.5	mA_{RMS}
Harmonic Distortion (85% to 100% of rated load): Class A				5	%
Power Factor (230 V_{AC} , 60–100% of full load)	PF	0.96	0.98		
Efficiency ($V_{OUT} = 52V$, 50%-100% of full load)	η				%
115 V_{AC}		90	92		
230 V_{AC}		93	95		
Holdup time (230 V_{AC} , $V_{OUT}=52V$, $P_{OUT}=1200W$, $T_A \geq -10^\circ\text{C}$, output allowed to decay down to 42 V_{DC})	T	10			ms
Ride-through time	T	10			ms
Isolation ³					
Input (each line) - Chassis		1500			

² See the derating guidelines under the Environmental Specifications section

³ According to EN60950; test with equivalent dc voltage is acceptable. "Output" includes control signals. Consult factory before testing to avoid damage

CC1600 Conduction-Cooled Rectifier

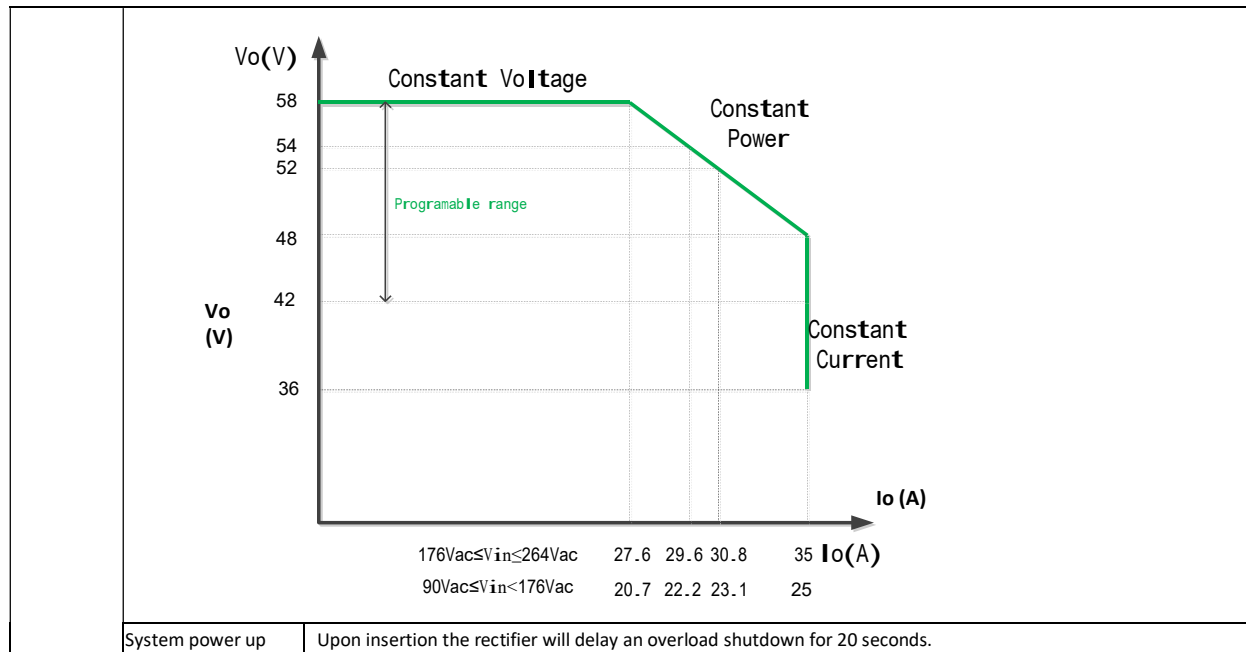
Input: 100-120/200-240 Vac; 1200/1600W capable; Output: 52V

52V _{DC} MAIN OUTPUT					
Parameter	Symbol	Min	Typ	Max	Unit
Maximum Output Power, 48-58 Vdc out Low-line input, 90–145V _{AC} , T _C < 50°C High-line input, 176–264V _{AC} , T _C < 50°C	P _{OUT}	1200 1600			W _{DC}
Derated Output Power at T _C > 50°C Low-line input, 90–145V _{AC} 2%/°C High-line input, 176–264V _{AC} 2%/°C	P _{OUT}				W _{DC}
Factory set point (T _C =25°C, I _{OUT} =50% full load) ⁴	V _{O,NOM}	51.5	52	52.5	V _{DC}
Overall regulation (load, line, temperature, life) Without controller	V _{OUT}			±2	% FL
Output Voltage Set Range (software control)		42		58	V _{DC}
Maximum Output Current Low-line input, V _{OUT} =42.0V (P _{OUT} =1200W) Low-line input, V _{OUT} =48.0V (P _{OUT} =1200W) Low-line input, V _{OUT} =52.0V (P _{OUT} =1200W) Low-line input, V _{OUT} =58.0V (P _{OUT} =1200W) High-line input, V _{OUT} =42.0V (P _{OUT} =1600W) High-line input, V _{OUT} =48.0V (P _{OUT} =1600W) High-line input, V _{OUT} =52.0V (P _{OUT} =1600W) High-line input, V _{OUT} =58.0V (P _{OUT} =1600W)	I _{O,FL}			25.0 25.0 23.1 20.7 33.3 33.3 30.8 27.6	A _{DC}
Current Share (single-wire, up to 12 rectifiers, each >50% full load)			±3	±5	% FL
Output Ripple (V _{IN} =120/230V _{AC} , load > 0.5A, 5Hz to 20MHz bandwidth) Peak-to-Peak (0 to 50°C) RMS	V _{OUT}			200 50	mV _{P-P} mV _{rms}
External Bulk Load Capacitance	C _{OUT}	0		10,000	μF
Turn-On ⁵ Delay Rise Time (hardware signal /RS485) No load to full load Overshoot/Undershoot	T		115	5 2	s ms %
Load Step Response (ΔI _O /Δt=1A/μS, I _{O,START} ≥ 10% full load) ΔI ΔV Settling time (to within 10% peak deviation)	I _{OUT} V _{OUT} T			25 ±5 5	% I _{O,FL} % ms
Permissible Load Boundary	Power limit , high line	P _{OUT}	1600		W
	Low line	P _{OUT}	1200		W
	Current limit , high line	I _{OUT}	33.3		A
	Low line	I _{OUT}	25.0		A
The overload current limit threshold is set ≅ 5% above the load envelope shown here.					

⁴ Output is floating; either side can be connected to frame ground.⁵ Monotonic turn-on from 30% to 100% of V_{O,NOM} above -5°C operation, and from 60% to 100% of V_{O,NOM} below -5°C operation.

CC1600 Conduction-Cooled Rectifier

Input: 100-120/200-240 Vac; 1200/1600W capable; Output: 52V



Electrical Specifications (continued)

52V _{DC} MAIN OUTPUT					
Parameter	Symbol	Min	Typ	Max	Unit
Short-circuit current (hiccup mode)			10		% of full load
Under-voltage shutdown ⁶				36	V _{DC}
Over-Voltage (latched shutdown)	V _{OUT}		59.5		V _{DC}
Over-temperature Shutdown (below the max device rating being protected) Restart hysteresis (below shutdown level)	T	20 10			°C
Isolation Output-Chassis (Standard, non-POE compliant)	V	500			V _{DC}

8V _{DC} Auxiliary output ⁷					
Parameter	Symbol	Min	Typ	Max	Unit
Output Voltage Set-point	V _{OUT}		8		V _{DC}
Output Current		0		150	mA

General Specifications

Parameter	Min	Typ	Max	Units	Notes
Reliability		450,000		Hours	Full load, 25°C ; MTBF per SR232 Reliability protection for electronic equipment, issue 2, method I, case III,
Service Life		10		Years	Full load 25C
Unpacked Weight		3.4		Kgs/Lbs	
Packed Weight		4.0		Kgs/Lbs	
Heat Dissipation	75 Watts or 246 BTUs @ 80% load, 100 Watts or 341 BTUs @ 100% load				

⁶ Attempts auto-restart (hiccup) a minimum of three times, then latches off. A restart command from the controller resets this protection.

⁷ Designed for internal use only, to bias up to 4 other identical rectifiers. Therefore regulation, ripple & noise are not specified, and **no over-current protection is provided**.

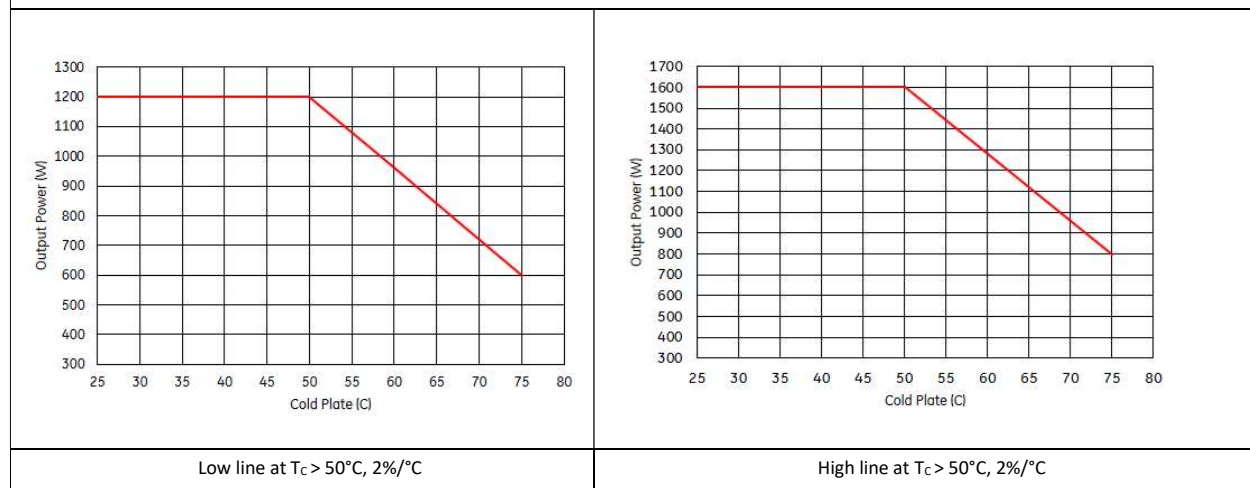
CC1600 Conduction-Cooled Rectifier

Input: 100-120/200-240 Vac; 1200/1600W capable; Output: 52V

Environmental Specifications

Parameter	Min	Typ	Max	Units	Notes
Operating Case Temperature ⁸	-40 ⁹		75	°C	Measured in the center of the heatsink side.
Storage Temperature	-40		85	°C	
Operating Altitude			4000/13,100	m / ft	
Non-operating Altitude			8200/27,000	m / ft	
Power Derating with Temperature			2	%/°C	50°C - 75°C
Acoustic noise		0		dbA	Full load
Humidity					
Operating	5		95	%	Relative humidity, non-condensing
Storage	5		95	%	
Shock and Vibration acceleration			2.4	Grms	IPC-9592B, Class II

Output power derating curve with temperature



Low line at T_c > 50°C, 2%/°C

High line at T_c > 50°C, 2%/°C

EMC

Parameter	Measurement	Standard	Level	Test
AC input	Conducted emissions	EN55022, FCC Docket 20780 part 15, subpart J Meets Telcordia GR1089-CORE by a TBD dB margin	Class A 6dB margin	0.15 – 30MHz
	Radiated emissions	EN55022	Class A 6dB margin	30 – 10000MHz
	Line harmonics	EN61000-3-2 THD	Table 1 5%	0 – 2 kHz 230V _{AC} , full load, 25°C

⁸ With power derating for T_c > 50°C regardless of low-line and high-line.

⁹ Designed to start and work at an ambient as low as -40°C, but may not meet operational limits until above -5°C

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EMC (continued)				
Parameter	Measurement	Standard	Criteria ¹⁰	Test
AC Input Immunity	Line sags and interruptions	EN61000-4-11	B	-30%, 10ms
			B	-60%, 100ms
			B	-100%, 5sec
		Output will stay above 40V _{DC} @ 75% load Sag must be higher than 80V _{rms} .	A	25% line sag for 2 seconds 1 cycle interruption
	Lightning surge	EN61000-4-5, Level 4, 1.2/50μs – error free	A	4kV, common mode
			A	2kV, differential mode
		ANSI C62.41 - level A3	B	6kV, common & differential
	Fast transients	EN61000-4-4, Level 3	A	5/50ns, 2kV (common mode)
Enclosure immunity	Conducted RF fields	EN61000-4-6, Level 3	A	130dBμV, 0.15-80MHz, 80% AM
	Radiated RF fields	EN61000-4-3, Level 3	A	10V/m, 80-1000MHz, 80% AM
		ENV 50140	A	
	ESD	EN61000-4-2, Level 4	B	8kV contact, 15kV air

¹⁰ Criteria A: The product must maintain performance within specification limits. Criteria B: Temporary degradation which is self recoverable. Criteria C: Temporary degradation which requires operator intervention.

CC1600 Conduction-Cooled Rectifier

Input: 100-120/200-240 Vac; 1200/1600W capable; Output: 52V

Characteristic Curves

The following figures provide typical characteristics for the CC1600AC52SXZ01A rectifier and 25°C.

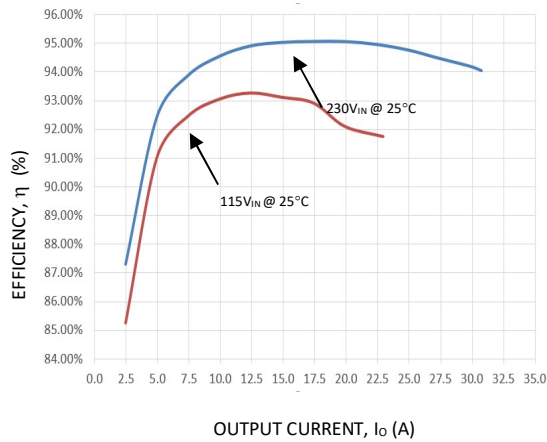


Figure 1. Rectifier Efficiency versus Output Current.

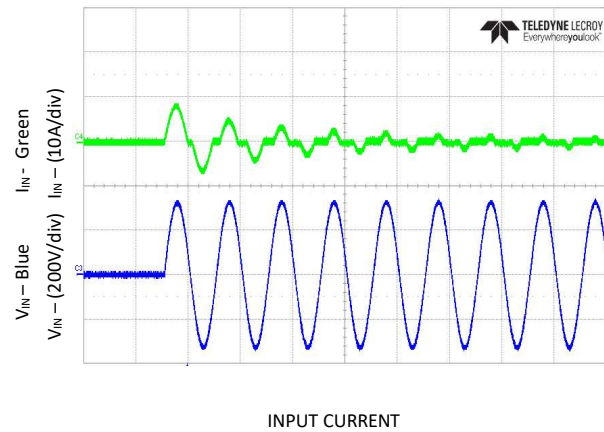


Figure 2. Inrush current $V_{IN} = 230V_{AC}$, 0°C phase angle

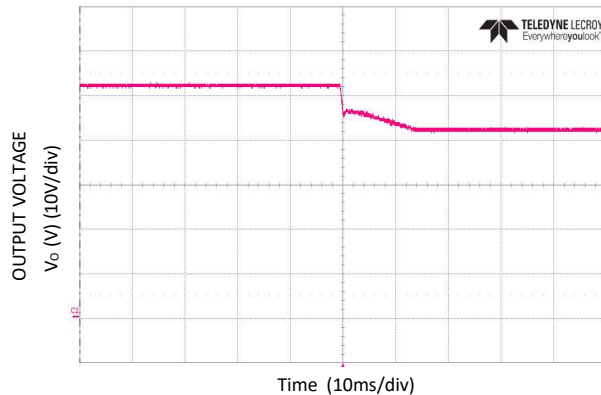


Figure 3. Main output: Output changed from 52V to 42V, full load; commanded via RS485.

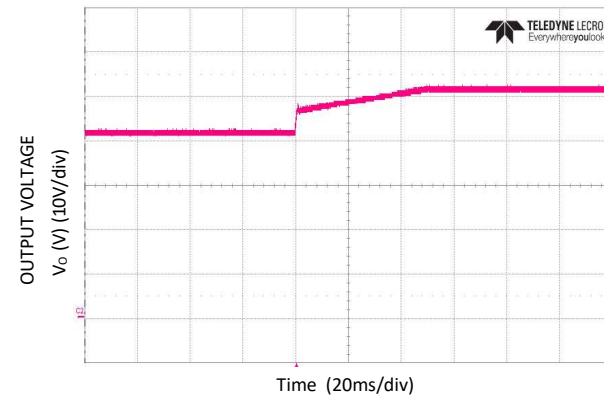


Figure 4. Main output: Output changed from 42V to 52V, full load; commanded via RS485.

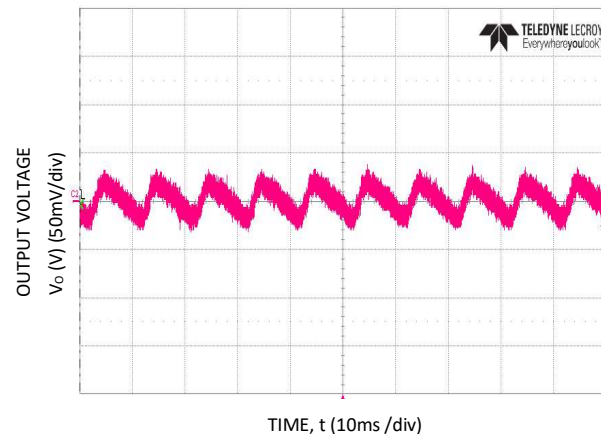


Figure 5. 52V_{DC} output ripple and noise, full load, $V_{IN} = 230V_{AC}$, 20MHz bandwidth

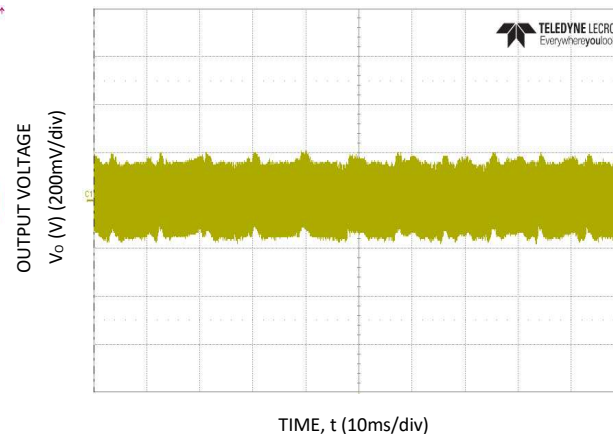


Figure 6. 8V_{DC} output ripple and noise, all full load, $V_{IN} = 230V_{AC}$, 20MHz bandwidth

CC1600 Conduction-Cooled Rectifier

Input: 100-120/200-240 Vac; 1200/1600W capable; Output: 52V

Characteristic Curves (continued)

The following figures provide typical characteristics for the CC1600AC52SX rectifier and 25°C.

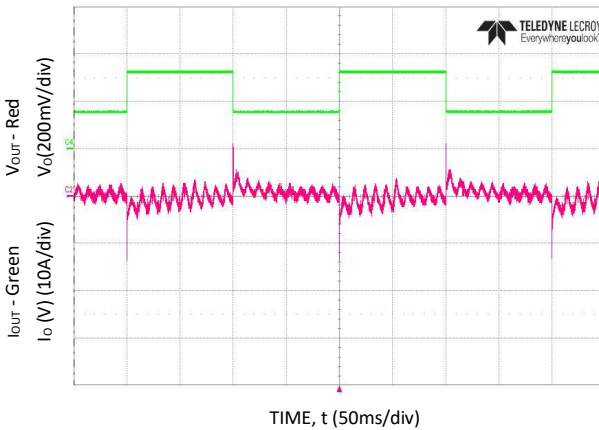


Figure 7. Transient response 52V_{DC} load step 25 – 50%, Slew rate: 1A/μs, V_{IN} = 230V_{AC}

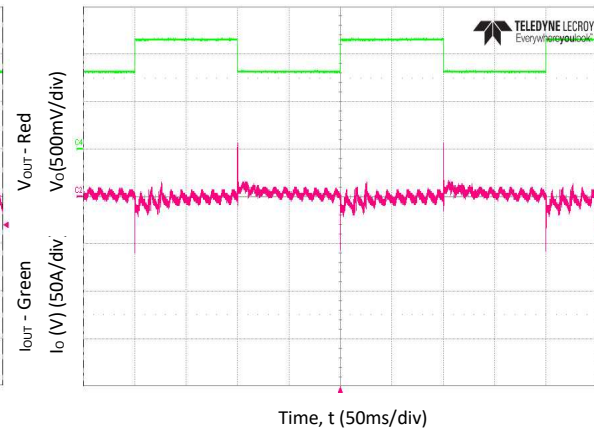


Figure 8. Transient response 52V_{DC} load step 50 – 75%, Slew rate: 1A/μs, V_{IN} = 230V_{AC}

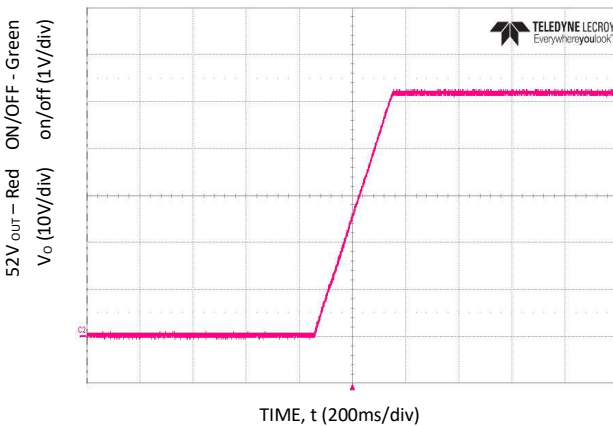


Figure 9. 52V_{DC} soft start, 80% full load V_{IN} = 230V_{AC}

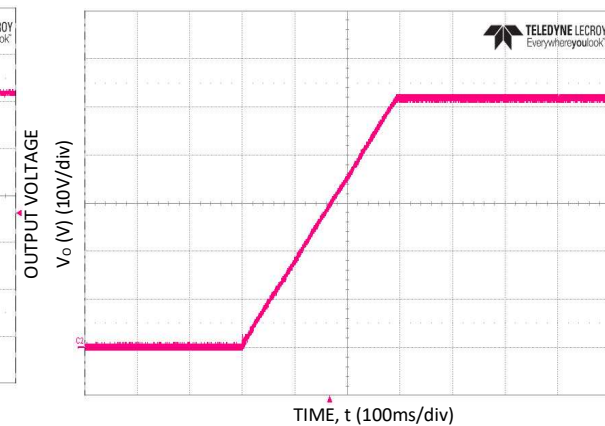


Figure 10. 52V_{DC} soft start, 80% full load V_{IN} = 230V_{AC} with 10000μF external capacitance.

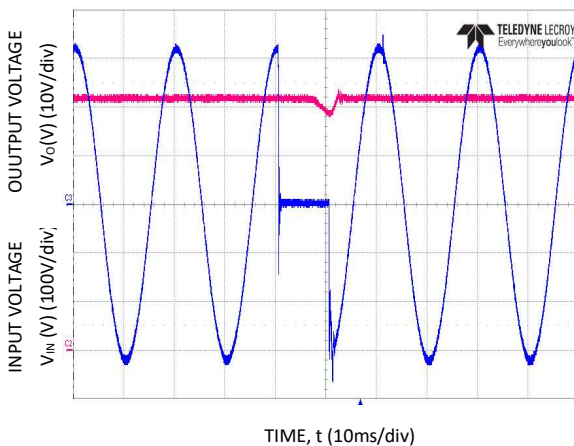


Figure 11. Ride through missing 1/2 cycle, full load, V_{IN} = 230V_{AC}.

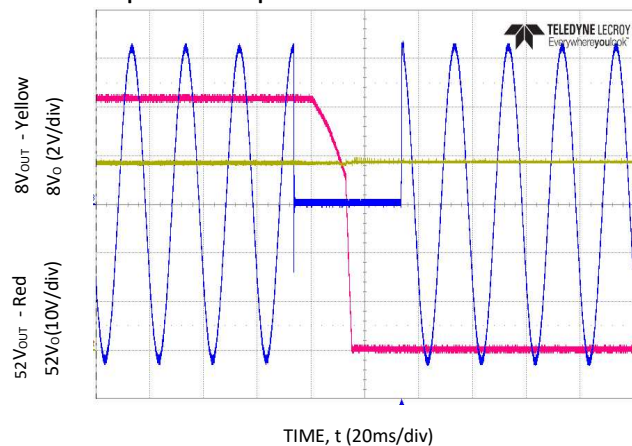


Figure 12. 40ms AC dropout @ full load, V_{IN} = 230V_{AC}.

CC1600 Conduction-Cooled Rectifier

Input: 100-120/200-240 Vac; 1200/1600W capable; Output: 52V

Characteristic Curves (continued)

The following figures provide typical characteristics for the CC1600AC52SX rectifier and 25°C.

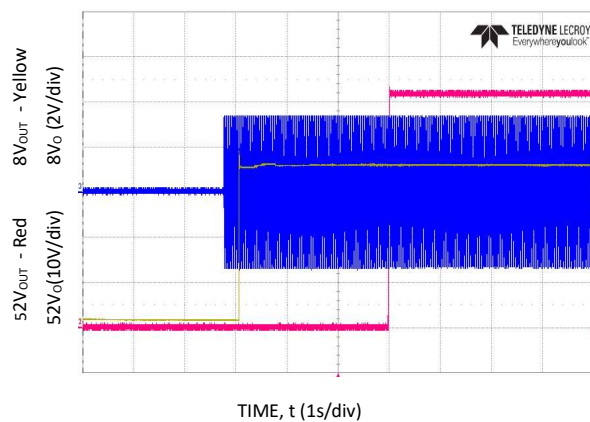


Figure 13. Turn-ON at full load $V_{IN} = 230V_{AC}$

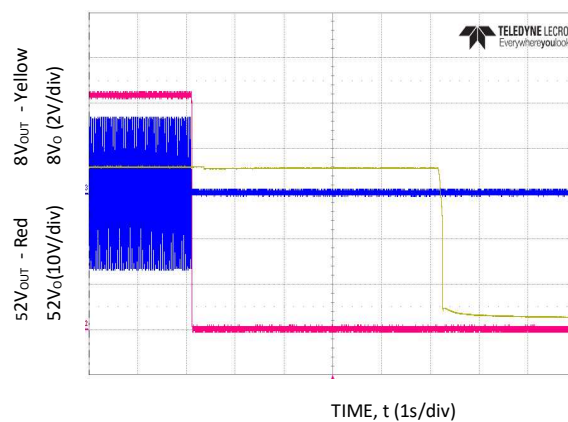


Figure 14. Turn-OFF at full load $V_{IN} = 230V_{AC}$

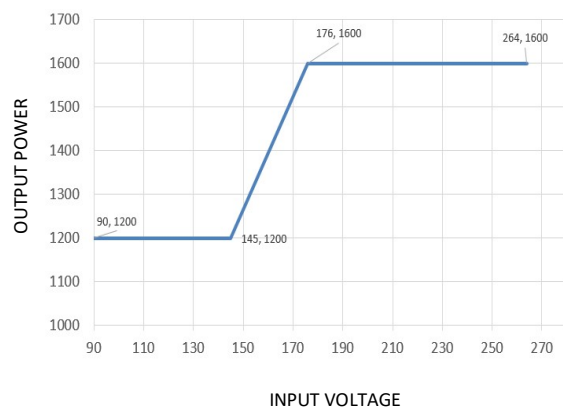


Figure 15. Output power derating below

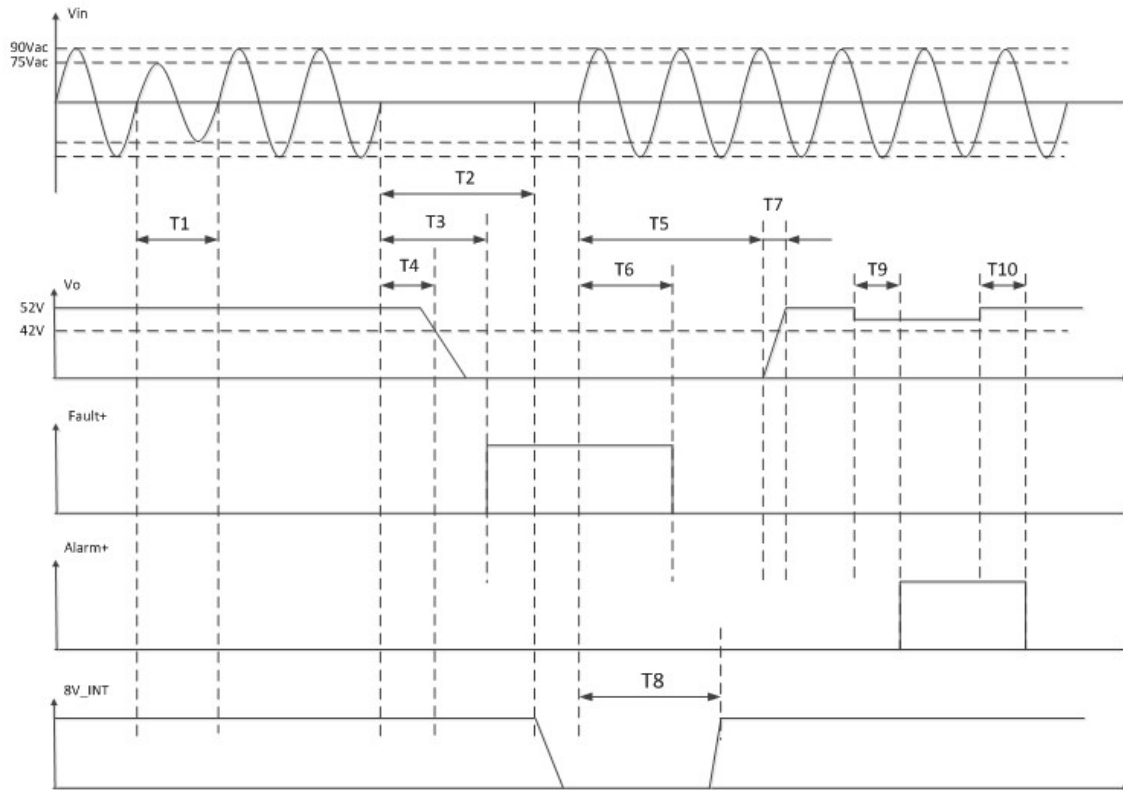
V_{IN} of 185V_{AC}

CC1600 Conduction-Cooled Rectifier

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Timing diagrams

Response to input fluctuations



T1 – ride through time – 0.5 to 1 cycles [10 – 20ms] V_{OUT} remains within regulation – load dependent

T2 – hold up time of the 8V_INT output @ full load – 5s – from the time when AC input is failed

T3 – AC failed delay time <320ms – from when the AC input failed to Fault signal be high

T4 – hold up time >10ms – V_{OUT} stays above 42V_{DC} for high line and >18ms for low line

T5 – delay time – 3.3s – from AC returns to regulation to restart of output

T6 – AC failed recovery time ~400ms – from when the AC returns within regulation to Fault signal be low

T7 – rise time - 120ms – the time it takes for V_{OUT} to rise from 10% to 90% of regulation

T8 – turn on delay time of the 8V_INT output – 4.7s – 8V_INT is available at least 3s before the main output is within regulation

T9 – Alarm settle time for current limit– 140ms –from current limit to alarm signal be high.

T10 – Alarm recovery time for current limit – 1s –from releasing of current limitation to alarm signal be low

CC1600 Conduction-Cooled Rectifier

Input: 100-120/200-240 Vac; 1200/1600W capable; Output: 52V

Output Behavior

The rectifier produces power at the output-voltage set-point (either at the factory default when the input AC voltage is within the defined operating input voltage range.

Current limit. As shown by the V_o versus I_o curve in the Electrical Specifications table, the maximum rectifier current follows a constant-power curve from 48V to 58V (unless the current limit is reset to less than 100%). Overcurrent protection is initiated at 5% above this maximum current. Between 48V and the under-voltage shutdown limit (36Vdc max), the maximum current is fixed. If the output voltage falls below the under-voltage shutdown limit, the rectifier shuts down and automatically attempt to restart. If the input voltage crosses 176 Vac, the current limits jump to new values as shown below the V_o versus I_o curve.

Output Over-Current. Depending on the input voltage the output behavior shall follow the power curve as described in the Rectifier.

Once the output current limit has reached and the output voltage is <36V, the rectifier shall enter a hiccup. During restart if the output voltage is still <36V and over-current is re-triggered, the unit will attempt to restart for 14 seconds, then remain off for 14 seconds, then retry.

Output Over-Voltage. If the rectifier's output voltage exceeds the HVSD threshold, the rectifier shall shut down its output. It shall then attempt to restart 3 times. Once 3 successive restarts have been attempted, the rectifier shall be latched off. The rectifier shall remain latched off until either the AC input is cycled.

Input Over-Voltage. If the rectifier AC input voltage exceeds the internal over-voltage threshold then the rectifier shall latch shut-down. The rectifier shall remain off until the AC input voltage returns to the allowable input range.

Over-Temperature. The unit is protected from over-temperature at multiple internal sense points by shutting down, then restarting after all points have cooled to acceptable levels.

Restart after a latch off: To restart after a latch off, any of three restart mechanisms are available:

1. Remove and reinsert the unit.
2. Turn OFF and then turn ON AC power to the unit.
3. The unit may be commanded to restart via RS485 through the Operation command by first turning OFF then turning ON.

Each of these commands must keep the rectifier in the OFF state for at least 2 seconds, with the exception of changing to **restart**.

A successful restart shall clear all alarm registers.

Control and Status

Analog control inputs are provided only to share load current evenly between rectifiers connected in parallel. These signals are named SHARE+ and SHARE-, described in the "Pin Assignments" table near the end of this datasheet.

Signal Reference: There are three different signal "grounds" in the rectifier, Alarm-GND, Sig-GND, and Com-GND. Com-GND is connected to Sig-GND by a 10 ohm resistor inside the rectifier. Alarm-GND has 100V of functional isolation from the other two. Individual signals are referenced to one of these grounds as described in the "Pin Assignments" table near the end of this datasheet.

Com-GND and Sig-GND are connected internally by a 10-ohm resistor so they should never be driven to different potentials. Sig-GND is capacitively coupled to PE inside the rectifier; the voltage difference between them should be kept less than 100V_{DC}. Likewise Alarm-GND should not be driven more than 100V_{DC} from Sig-Gnd or PE.

Analog Control Signals

Load share (Ishare+ and -): This is a two wire analog signal that is generated and acted upon automatically by rectifiers connected in parallel. Ishare pins should be connected to each other for rectifiers, if active current share among the rectifiers is desired. No resistors or capacitors should get connected to this pin.

8V_INT: Single wire connection between rectifiers, Provides bias to the DSP of an unpowered rectifier.

Digital Communications

CC1600 supports RS485 communication (with GP protocol). The details are not provided in this datasheet. GE will provide separate application notes on the Galaxy RS485 based protocol for users to interface to rectifier. Contact your local GE representative for details.

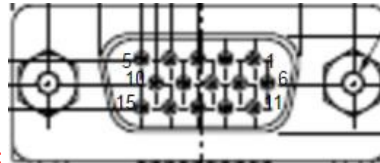
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Pin Assignments

Signal Connector for Screw-Terminal Version (-ES)

Pin 5	Pin 4	Pin 3	Pin 2	Pin 1
Fault+	Alarm+	8V_INT	GND	RS485_A
Pin 10	Pin 9	Pin 8	Pin 7	Pin 6
ALARM-GND	Reserved	PS-Present	ComGND	RS485_B
Pin 15	Pin 14	Pin 13	Pin 12	Pin 11
ADDR0	ADDR1	ADDR2	Share+	Share-



- Sub D-15 connector (from which direction):

Pin Number	Function	Description
Signal Pins		
Pin5	Fault +	Isolated open collector output with internal 100 ohms series resistor. Closed to ALARM-GND in normal non-FAULT condition. Opens (high resistance) with respect to ALARM-GND during a FAULT condition. Maximum sink current 3mA.
Pin4	Alarm +	Isolated open collector output with internal 100 ohms series resistor. Closed to ALARM-GND in normal non-ALARM condition. Opens (high resistance) with respect to ALARM-GND during an ALARM condition. Maximum sink current 3mA.
Pin10	ALARM-GND	Isolated ground for Fault+ and Alarm+ signals.
Pin12	Share+	Current sharing bus
Pin11	Share-	
Pin9	Reserved	No connect
Pin8	PS-present	Module present signal connected to ALARM-GND inside the rectifier
Pin2	GND	Signal GND for 8V_INT and ADDR0, ADDR1, ADDR2.
Pin15	ADDR0	Address signals.
Pin14	ADDR1	
Pin13	ADDR2	
Pin3	8V_INT	8 V DC internal back-bias (~150mA)
Pin7	ComGND	RS485 circuit reference ground, connected to GND via a low value resistor inside the rectifier.
Pin1	RS485_A	RS485 communication signals; RS485_A is the Signal + or non-inverting (+) pin aka '+' aka TxD+/RxD+. RS485_B is the Signal- or inverting (-) pin aka '-' aka TxD-/RxD.
Pin6	RS485_B	

CC1600 Conduction-Cooled Rectifier

Input: 100-120/200-240 Vac; 1200/1600W capable; Output: 52V

Mechanical Outline (Preliminary)

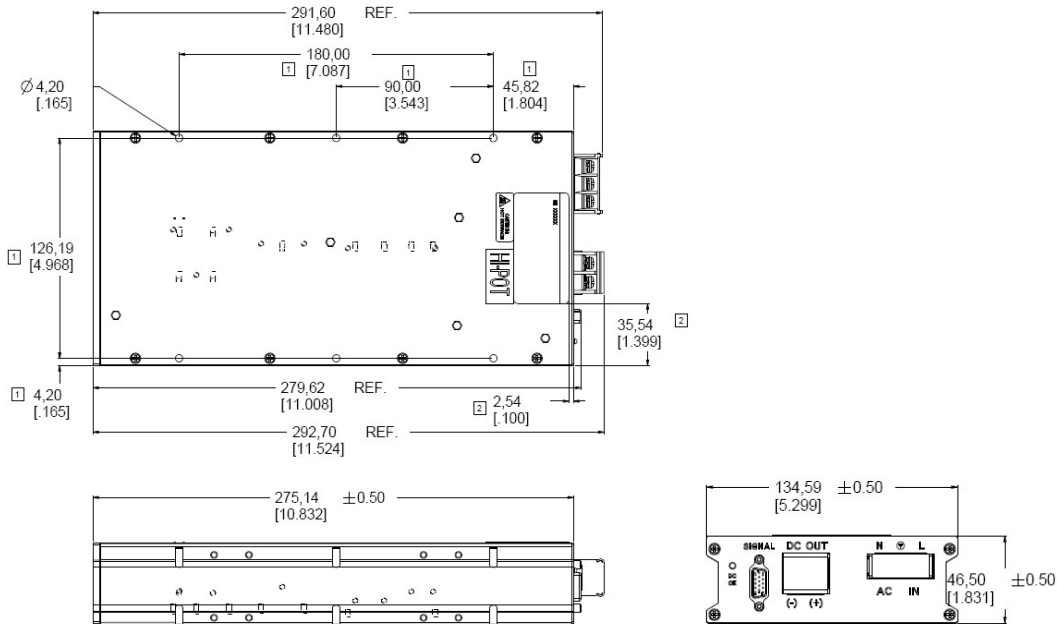
Flatness of sink side ± 0.15 mm

Outline Dimensions (including protruding connector): 292.70 x 134.59 x 46.50mm (11.524 x 5.299 x 1.831 inch)

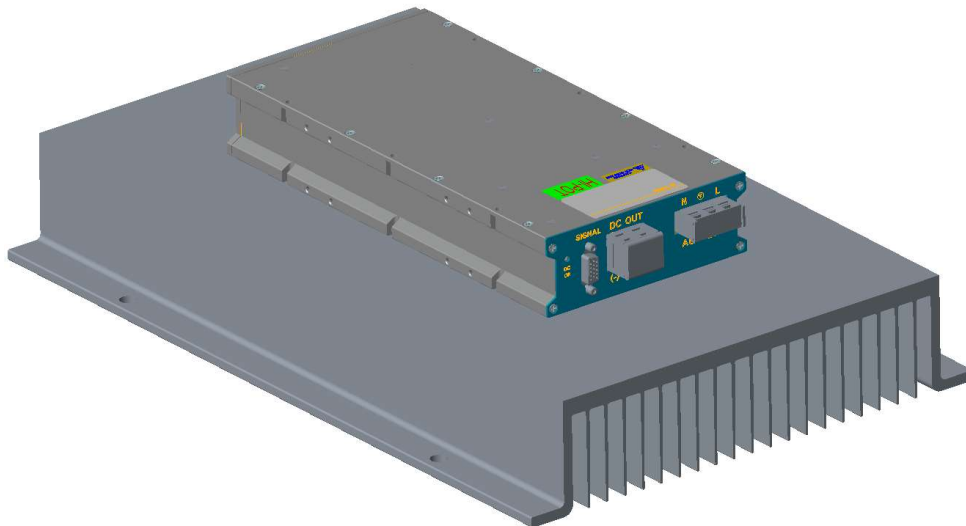
“Cooling side” (for heat transfer) is the large surface as below shown, opposite the label.

The cooling device (cold plate, warm wall or heat sink) should be placed in good thermal contact with the entire cooling surface by using thermal grease or thermal interface pad between rectifier and cold plate.

(Drill 6pcs M4 thread holes on cold plate to matting below 6 pcs $\phi 4.2$ of rectifier as marked 1.)



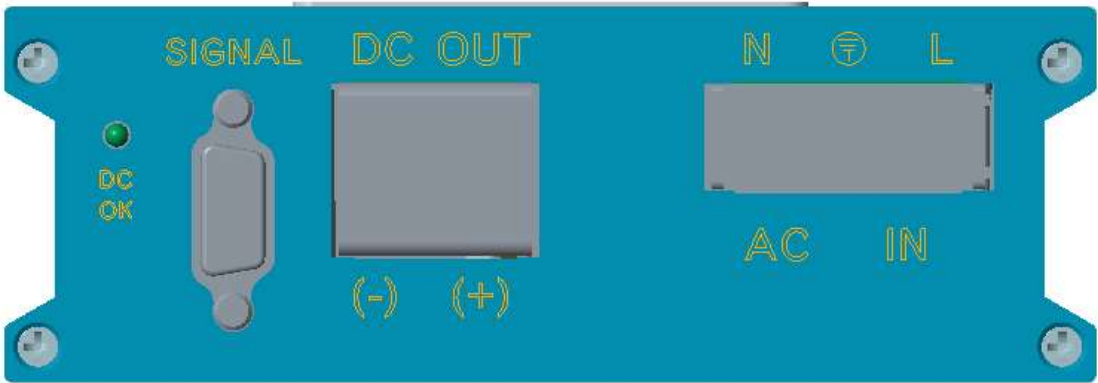
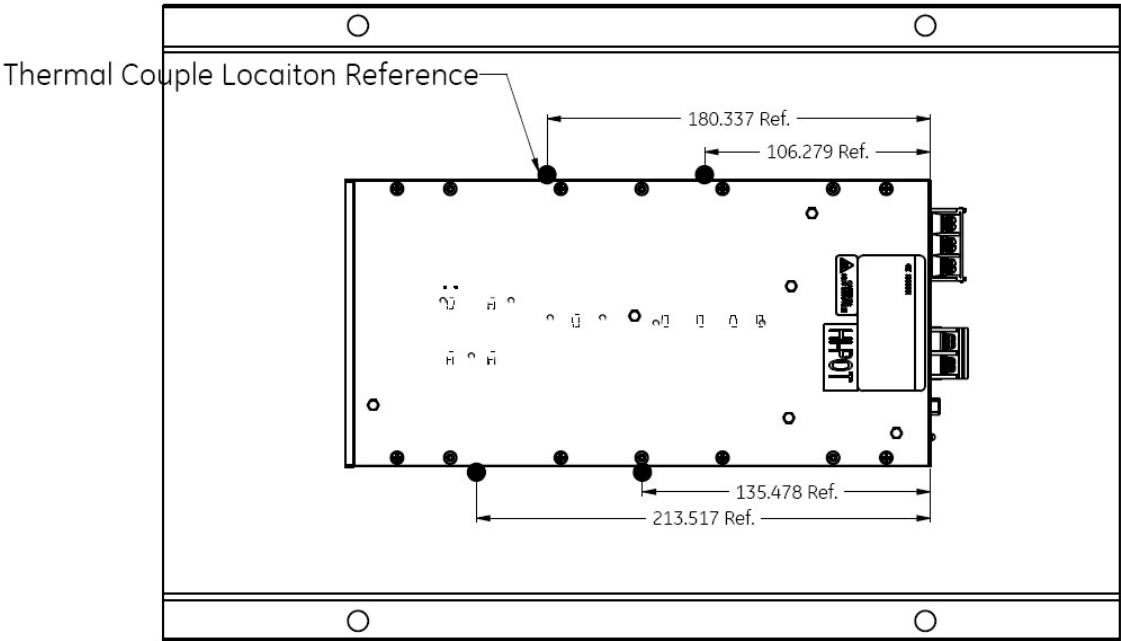
Matting rectifier on the surface of cold plate as below shown.



CC1600 Conduction-Cooled Rectifier

Input: 100-120/200-240 Vac; 1200/1600W capable; Output: 52V

The locations of 4 thermal couples reference as below shown.



Screw-Terminal Connector Option

Input Terminal Block	4600096785P	DINKLE: DT-51-B12W-03
Output Terminal Block	4600095190P	DINKLE: DT-66-C11W-02
Signal D SUB	450051939	TE: CONN 1734530-3 RIGHT-ANGLE RECEPTACLE ASSY 15P 3R

Visual Indicators (LED)

"DC OK" LED




The green LED shall illuminate when DC output voltages are within specification and able to provide power.

LED will extinguish immediately when power is removed.

CC1600 Conduction-Cooled Rectifier

Input: 100-120/200-240 Vac; 1200/1600W capable; Output: 52V

Accessories

Item	Descrip	Part number
	Signal D SUB Matting Connector, 15Pin,	TE Connector: 748364-1 Terminal: 1658670-2 Cable wire: 10368 or EQ, AWG 24
	AC Input Harness	Ring Terminal TE PN: 4-51864-1 or EQ Min ID: Ø4.3mm Max OD: Ø8.4mm AWG: 14GA
	DC Output Harness	Ring Terminal TE PN: 8-35787-2 or EQ Min ID: Ø4.3mm Max OD: Ø9.0mm AWG: 10GA

[[Other desirable accessories]]

- ☐ Signal-cable assembly (with male mini-DB15)
- ☐ (maybe) Thermal pad (offer with heatsinks)

CC1600 Conduction-Cooled Rectifier

Input: 100-120/200-240 Vac; 1200/1600W capable; Output: 52V

Ordering Information

Please contact your GE Sales Representative for pricing, availability and optional features.

Table 4: Device Codes

Item	Description	Comcode
CC1600AC52SXZ01A	1600W ACDC fanless 52V rectifier with screw terminals	CC1600AC52SXZ01A

Contact Us

For more information, call us at

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+86.021.54279977*808

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+49.89.878067-280

<http://www.geindustrial.com/products/critical-power>



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<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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