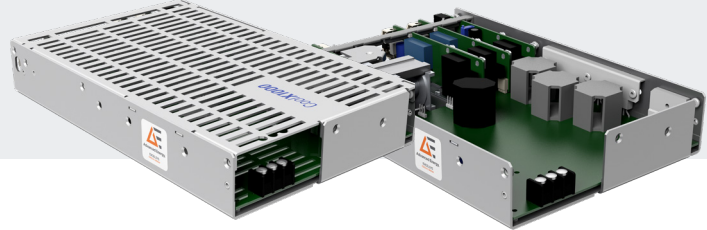


EXCELSYS COOLX®1000

FANLESS, INTELLIGENT 1000 W MODULAR POWER SUPPLIES



Advanced Energy's CoolX®1000 series, part of our Excelsys product line, is the world's only fanless 1000 W modular power supply. Packaged in a compact 259.5 mm x 164 mm x 40.6 mm (10 in x 6.5 in x 1U) U-channel design, the CoolX1000 provides up to 1000 W without any requirement for fan or base plate cooling, eliminating acoustic noise detrimental to scientific and medical applications, as well as applications sensitive to vibration or where fan cooling is not available. The CoolX1000 also offers increased flexibility by allowing system designers to monitor and control power supply performance — essential for staving off process disruption — using either analog or digital communications (PMBus™). New -G option available on CoolX series. This option allows customers and safety agencies to carry out the full 4 kVAC and 5.6 kVDC primary to secondary isolation (Hi-Pot) test on a complete power supply and system, exactly as it will be used and installed in system with no modifications required.

PRODUCT HIGHLIGHTS

No Fan Featured

- 1000 W with 100% natural convection cooling
- No base plate needed
- No acoustic noise or vibrations

Reliability

- MTBF > 2,900,000 hours
- High-input surge protection — 4 kV line to PE for harsh environments
- Reverse energy protection — no blocking diodes required
- 24 W standby power
- Safety approved to 5000 m altitude
- 93% efficiency
- Five-year warranty

Flexibility

- Analog and digital management — PMBus™ monitoring and control capability

- Field-configurable — plug and play power
- Series and parallel outputs — higher voltages/currents
- Mounting options — base/side and DIN-Rail mounting

TYPICAL APPLICATIONS

Medical

- Clinical diagnostic equipment, medical lasers, dialysis equipment, radiological imaging, clinical chemistry

Industrial

- Test and measurement, industrial machines, automation equipment, printing, telecommunications, audio equipment

Hi Rel

- Harsh industrial electronics, radar (naval-andground-based), communications, test and measurement

AT A GLANCE

CX10S CX10M

Power

1000 W 1000 W

Slots

6 6

Cooling

No fan featured

Parameters

259.5 mm x 164 mm x 40.6 mm
(10 in x 6.5 in x 1U)

Certification and Compliance

Medical

- IEC60601-1 3rd edition, IEC60601-1-2 4th edition (EMC)
- 2 MOPP
- Dual fused

Industrial

- IEC60950, IEC62368-1
- SEMI F47*

Defense/Aero

- MIL-STD-810G

MODULES

CoolX CoolMods				
Single Output Modules (1 Slot)	Vnom (V)	Set Point Adjust Range (V)	I _{max} (A)	Power (W)
CmA	5	2.5-6.0	21.0	105
CmB ¹	12	6.0-15.0 ²	15.0	180
CmC	24	15.0-28.0	8.3	200
CmD	48	28.0-58.0 ³	4.16	200
High Power Modules (3 Slot)				
CmE ⁴	24	24.0-25.2	25.0	600
CmF ⁴	48	48.0-50.4	12.5	600
Dual Output Modules (1 Slot)				
CmG ⁵ V1	24	3.0-30.0	3.0	90
V2	24	3.0-30.0	3.0	90
CmH ⁶ V1	5	3.0-6.0	6.0	36
V2	24	3.0-30.0	3.0	90
Wide Trim Modules (1 Slot)				
CmA-W01	5	1.0-6.0	21.0	105
CmB-W01	12	1.0-15.0 ²	15.0	180
CmC-W01	24	2.0-28.0	8.3	200
CmD-W01	48	3.0-58.0 ³	4.16	200
High Voltage Modules (1 Slot)				
CmK ⁷	200	175-205	0.66	132

* SEMI F47 compliant at input voltages > 180 VAC. Consult Advanced Energy for details.

¹ Full dynamic specifications may not be met at full load when output voltage is trimmed by above 13 V.

² Max trim 14 V when used with high power module

³ Max trim 56 V when used with high power module

⁴ a) Only one high power module (CmE or CmF) can be used per CoolPac.

b) During load transients starting from 0% load on the High Power modules, other modules in the CoolPac may experience an output voltage dynamic during the load change. Contact applications support for details or support.

⁵ For the CmG module, the max combined power of both outputs is 120 W.

⁶ For the CmH module, the max combined power of both outputs is 100 W.

⁷ When a CmK module is used in the same pack as a CmE or CmF module, one module slot must remain unpopulated.

ELECTRICAL SPECIFICATIONS

Input					
Parameter	Conditions/Description	Min	Nom	Max	Units
Nominal Input Voltage Range	Universal Input 47-440 Hz	100	—	240	VAC
AC Operating Input Range		85	—	264	VAC
Extended AC Operating Range	Maximum for 5 seconds	—	—	300	VAC
DC Input voltage range		120	—	300	VDC
Input Current	90 VAC @ 620 W	—	8.5	—	A
Inrush Current	230 VAC @ 1000 W	—	—	25	A
Power Factor	120 VAC @ 800 W	0.98	—	—	—
Undervoltage Lockout	Shutdown	65	—	81	VAC
Input Fuses Rating	Dual Fused (Line and Neutral) 250 VAC	—	10	—	A
Efficiency	230 VAC, 1000W with 5 x CmC CoolMods	—	92	—	%
	230VAC, 1000W with CmB/CmC/CmD/CmF combination	—	93	—	%

Output					
Parameter	Conditions/Description	Min	Nom	Max	Units
Single Output Modules (1 Slot)					
Line Regulation	From minimum to maximum rated voltage	—	—	±0.2	%
Load Regulation	For 0 to 100% load change	—	—	±0.4	%
Transient Response	For 25% to 75% load change, 0.5 A/μs: voltage deviation	—	—	±6	%
	For 25% to 75% load change, 0.5 A/μs: settling time	—	—	500	μs
Ripple and Noise	Peak-Peak, 20 MHz BW, 100 mV or % of nominal	—	—	1.25	%
Overvoltage Protection	Tracking OVP (autorecovery, % of setpoint)	103	—	125	%
	Hiccup OVP (% of maximum voltage)	107	—	160	%
Remote Sense	Maximum cable drop compensation	—	—	0.5	VDC
Rise Time	Monotonic	—	—	5	ms
Turn-On Delay	From AC in	—	—	1000	ms
	From Global Enable	—	—	12	ms
	From CoolMod Enable	—	—	12	ms
Hold-Up Time	For nominal output voltage at full load	16	—	—	ms
Overcurrent Protection	Straight line current limit with hiccup protection at 35% Vo nom	105	—	130	%
Short Circuit Protection	Hiccup, Autorecovery	—	—	—	—
Overtemperature Protection	Autorecovery	—	—	—	—
Capacitive Load		—	—	10	mF
Dual Output Modules (1 Slot)					
Line Regulation	From minimum to maximum rated voltage	—	—	±0.5	%
Load Regulation	For 0 to 100% load change	—	—	±2	%
Transient Response	For 25% to 75% load change, 0.5 A/μs: voltage deviation	—	—	±10	%
	For 25% to 75% load change, 0.5 A/μs: settling time	—	—	1000	μs
Ripple and Noise	Peak-Peak, 20 MHz BW, 100 mV or % of nominal	—	—	2	%
Overvoltage Protection	Hiccup OVP (% of maximum voltage)	110	—	130	%
Rise Time	Monotonic	—	—	20	ms
Turn-On Delay	From AC in	—	—	1000	ms
	From Global Enable	—	—	100	ms
	From CoolMod Enable	—	—	100	ms

ELECTRICAL SPECIFICATIONS (CONTINUED)

Hold-Up Time	For nominal output voltage at full load	16	—	—	ms
Overcurrent Protection	Hiccup, Autorecovery	165	—	335	%
Short Circuit Protection	Hiccup, Autorecovery	—	—	—	—
Overtemperature Protection	Hiccup, Autorecovery	—	—	—	—
Capacitive Load		—	—	270	μF
High Power Modules (3 Slots)					
Line Regulation	From minimum to maximum rated voltage	—	—	±0.5	%
Load Regulation	For 0 to 100% load change	—	—	±3.5	%
Transient Response	For 25% to 75% load change, 0.5 A/μs: voltage deviation	—	—	±4	%
	For 25% to 75% load change, 0.5 A/μs: settling time	—	—	1000	μs
Ripple and Noise	Peak-Peak, 20 MHz BW, 100 mV or % of nominal	—	—	3.5	%
Overvoltage Protection	Tracking OVP (autorecovery, % of setpoint)	102	—	120	%
	Hiccup OVP (% of maximum voltage)	107	—	130	%
Remote Sense	Maximum cable drop compensation	—	—	0.5	VDC
Rise Time	Monotonic	—	—	5	ms
Turn-On Delay	From AC in	—	—	1000	ms
	From Global Enable	—	—	20	ms
	From CoolMod Enable	—	—	20	ms
Hold-Up Time	For nominal output voltage at full load	16	—	—	ms
Overcurrent Protection	Straight line current limit with hiccup protection at 35% Vo nom	105	—	130	%
Short Circuit Protection	Hiccup, Autorecovery	—	—	—	—
Overtemperature Protection	Autorecovery	—	—	—	—
Capacitive Load		—	—	2.5	mF
Wide Trim Power Modules (1 Slot)					
Line Regulation	From minimum to maximum rated voltage	—	—	±0.25	%
Load Regulation	For 0 to 100% load change	—	—	±0.4	%
Transient Response	For 25% to 75% load change, 0.5 A/μs: voltage deviation	—	—	±6	%
	For 25% to 75% load change, 0.5 A/μs: settling time	—	—	500	μs
Ripple and Noise	Peak-Peak, 20 MHz BW, 100 mV or % of nominal	—	—	1.25	%
Overvoltage Protection	Tracking OVP (autorecovery, % of setpoint)	103	—	125	%
	Hiccup OVP (% of maximum voltage)	107	—	160	%
Remote Sense	Maximum cable drop compensation	—	—	0.5	VDC
Rise Time	Monotonic	—	—	5	ms
Turn-On Delay	From AC in	—	—	1000	ms
	From Global Enable	—	—	12	ms
	From CoolMod Enable	—	—	12	ms
Hold-Up Time	For nominal output voltage at full load	16	—	—	ms
Overcurrent Protection	Straight line current limit with hiccup protection at 35% Vo nom	105	—	130	%
Short Circuit Protection	Hiccup, Autorecovery	—	—	—	—
Overtemperature Protection	Autorecovery	—	—	—	—
Capacitive Load		—	—	10	mF
High Voltage Modules (1 Slot)					
Line Regulation	From minimum to maximum rated voltage	—	—	±0.5	%
Load Regulation	For 0 to 100% load change	—	—	±1.0	%
Transient Response	For 25% to 75% load change, 0.5 A/μs: voltage deviation	—	—	±3.75	%
	For 25% to 75% load change, 0.5 A/μs: settling time	—	—	500	μs

ELECTRICAL SPECIFICATIONS (CONTINUED)

Ripple and Noise	Peak-Peak, 20 MHz BW, 100 mV or % of nominal	—	—	1.0	%
Overvoltage Protection	Tracking OVP (autorecovery, % of setpoint)	103	—	125	%
	Hiccup OVP (% of maximum voltage)	112	—	122	%
Rise Time	Monotonic	—	—	20	ms
Turn-On Delay	From AC in	—	—	1000	ms
	From Global Enable	—	—	30	ms
	From CoolMod Enable	—	—	30	ms
Hold-Up Time	For nominal output voltage at full load	16	—	—	ms
Overcurrent Protection	Straight line current limit with hiccup protection at 35% Vo nom	105	—	130	%
Short Circuit Protection	Hiccup, Autorecovery	—	—	—	—
Overtemperature Protection	Autorecovery	—	—	—	—
Capacitive Load		—	—	10	μF

Auxiliary Output

Parameter	Conditions/Description	Min	Nom	Max	Units
Auxiliary Output Voltage	Aux Voltage Option A	11.6	12	12.4	V
	Aux Voltage Option B	4.8	5	5.2	V
Load Regulation		—	—	±2	%
Line Regulation	For ±10% change from nominal line	—	—	±0.5	%
Ripple and Noise	Peak-Peak, 20 MHz BW, % of nominal	—	—	4	%
Maximum Output Current	Aux Voltage Option A	—	—	1.96	A
	Aux Voltage Option B	—	—	4.7	A
Maximum Output Capacitive Load		—	—	1000	μF
Output Overcurrent Protection	Hiccup	105	—	145	%
Short Circuit Protection	Yes, autorecovery	—	—	—	—

Galvanic Isolation

Parameter	Conditions/Description	Min	Nom	Max	Units
Input to Output	Reinforced (2 x MOPP); contact Advanced Energy for Hi-Pot instructions	4000	—	—	VAC
Input to Case	Basic (1 x MOPP)	1850	—	—	VAC
Output to Case	Basic (1 x MOPP)	1850	—	—	VAC
Output to Output	Basic (1 x MOPP)	1850	—	—	VAC
Output to Output (Dual)	CmG, CmH V1-V2	500	—	—	VDC

Reliability

Parameter	Conditions/Description	Min	Nom	Max	Units	
Reliability and MTBF	Telecordia SR-332, Issue 4	CoolPac	—	0.29	—	Fpmh
		CoolMod	—	0.11	—	Fpmh
Warranty	5 years	—	—	—	—	

ELECTRICAL SPECIFICATIONS (CONTINUED)

Environmental					
Parameter	Conditions/Description	Min	Nom	Max	Units
Operating Temperature	Operates to specification below -20°C after 10 min warm-up	-30	—	85	°C
Storage Temperature		-40	—	85	°C
Derating	See derating curves in the CoolX1000 Designers Manual	—	—	—	—
Relative Humidity	Non-condensing	5	—	95	%RH
Shock and Vibration	MIL-STD-810G Method 514.6	—	—	—	—
Altitude		—	—	5000	m

Leakage Currents				
Parameter	Conditions/Description	Nom	Max	Units
AC Leakage Current	Input to Earth Ground	—	—	—
Normal Condition (High Line)	Mains Voltage 264 VAC / 60 Hz	—	300	µA
Single Fault Condition (High Line)	Mains Voltage 264 VAC / 60 Hz	—	500	µA
Touch Current				
Normal Condition	Mains Voltage 264 VAC / 60 Hz	—	100	µA
Single Fault Condition	Mains Voltage 264 VAC / 60 Hz	—	500	µA

EMC		
Parameter	Conditions/Description	Criteria
Radiated Emissions ¹	EN 55011, EN 55022 and FCC, Class B	Compliant
Conducted Emissions ²	EN 55011, EN 55022 and FCC, Class B	Compliant
Power Line Harmonics	EN 61000-3-2, Class A	Compliant
Voltage Flicker	EN 61000-3-3	Compliant
ESD	EN 61000-4-2, level 4, 8 kV contact, 15 kV air	A
Radiated Immunity	EN 61000-4-3, level 3, 10V/m 80-2700 MHz	A
Electrical Fast Transient	EN 61000-4-4, level 4, ±4 kV	A
Surge Immunity	EN 61000-4-5, level 4, 2 kV DM, 4 kV CM	A
Conducted RF Immunity	EN 61000-4-6, level 3, 10 Vemf 150 KHz-80 MHz	A
Power Frequency Magnetic Field	EN 61000-4-8, level 4, 30 A/m	A
Voltage Dips & Interruptions	EN 61000-4-11	A & B Compliant

¹ Consult AE applications for system level compliance

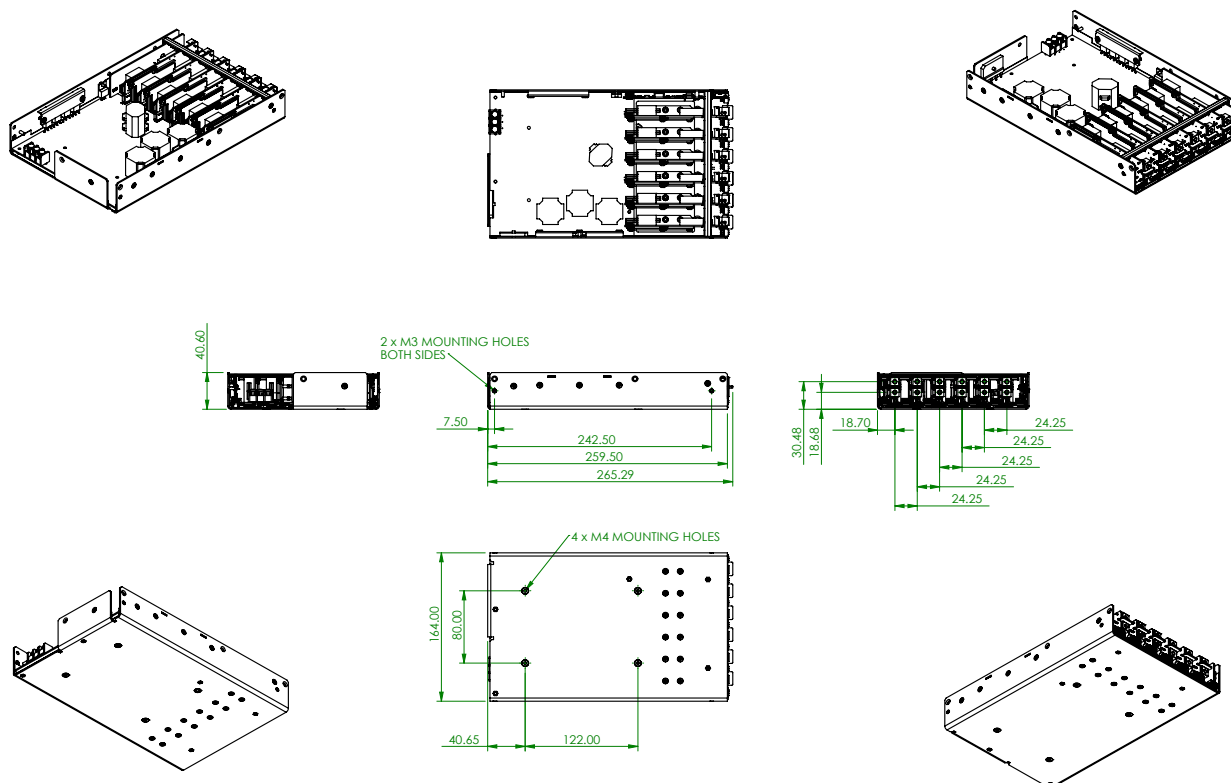
² Low leakage option – Class A

Standards & Directives	
Standard	Conditions/Description
Safety Agency Approvals	EN60601-1 3rd edition, UL60601-1, CSA601, EN60950 2nd edition, CSA C22.2 No. 60950-1
IEC/EN 60950-1, Edition 2	UL 60950-1/CSA 22.2 No 60950-1, Edition 2; 5000 m (16,400 ft) altitude, 100 to 240 VAC ± 10%
IEC/EN 60601-1, Edition 3	IEC 60601-1 (2005), EN60601-1 (2006), ANSI/AAMI ES 60601-1 (2005), CAN/CSA C22.2 No. 60601-1 (2008); 5,000 m (16,400 ft) altitude, 100 to 240 VAC ± 10%
IEC 62368 Edition 2	IEC 62368-1 (2014) Edition 2 5000 m (16,400 ft) altitude, 100 to 240 VAC ± 10%
IEC 60601-1-2 Edition 4	IEC 60601-1-2 (2014)
Protection class	Class I
WEEE	Waste Electrical and Electronic Equipment Directive (WEEE) 2002/96/EC
ROHS	EU DIRECTIVE 2011/65/EC RoHS compliancy
REACH	Compliant

MECHANICAL SPECIFICATIONS

Mechanical Data		
Parameter	Description	
Dimensions (L x W x H)	L x W x H	259.5 mm x 164 mm x 40.6 mm (10 in x 6.5 in x 1U)
Weight	Nominal Weight: CoolPac + 6 x CoolMods	1 Kg
Connectors	Description	Mating Connectors (if applicable)
AC/DC Input Terminal Block	TE 2-1437667-S, DINKLE DT-35-B07W-03	—
Main DC Output Terminal Block (CmA-CmF)	M4 Screws	—
Main DC Output Terminal Block (CmG, CmH)	Camden - CTB9350/4A	—
Output Signal Connector (CmG, CmH)	Molex - 87833-0831	—
System Signal Connector J1007	Molex 87833-0831 8-way	Locking Molex 51110-0860; Non Locking Molex 51110-0850; Crimp Terminal: Molex p/n 50394 or Molex 51110-0856 which includes locking tab and polarization keying
Output Signal Connectors J1001-1006	Molex 87833-0631 6-way	Locking Molex 51110-0660; Non Locking Molex 51110-0650; Crimp Terminal: Molex p/n 50394 or Molex 51110-0656 which includes locking tab and polarization keying
Output Sense Connectors J3	JST-S2BPH-K(LF)(SN)	JST PHR2. Crimp Terminal JST BPH-002TP0.5S or SPH-002T-P05S
Auxiliary Output Connector J1	Molex 1041880210 2pin	—

CoolX Mechanical Drawings

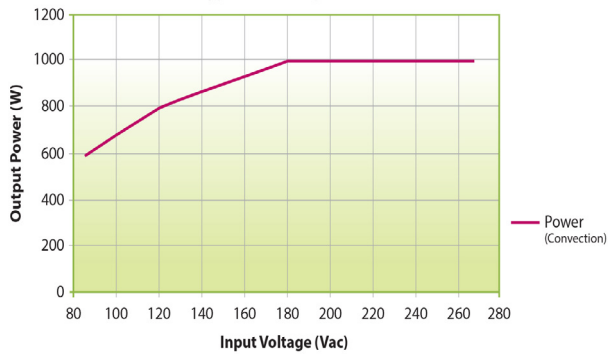


*Maximum screw penetration from base does not exceed 1.5mm.

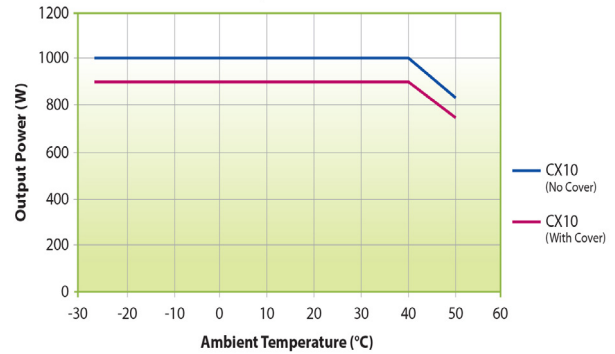
CoolX can be mounted on its base, vertically or on its side. CoolX can also be mounted on the DIN Rail accessory (Z744).

EFFICIENCY AND DERATING CURVES

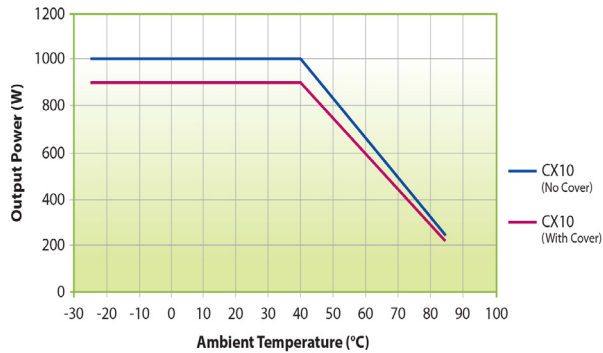
**CX10 Input Voltage
Typical Derating Curve**



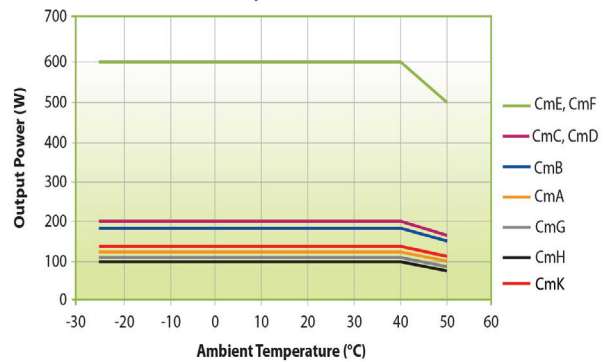
**CX10 Temperature Derating Curves
- IEC Input Connector**



**CX10 Temperature Derating Curves
- Screw Terminal Input Connector**



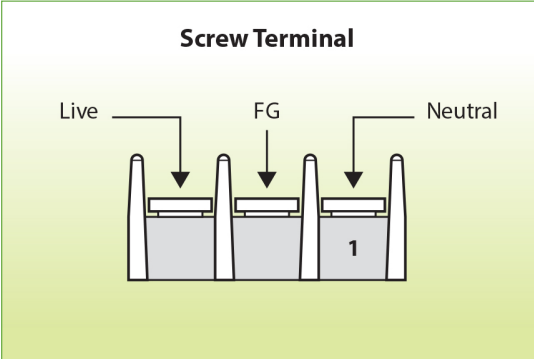
**CoolX1000 Cm Typical Derating Curves
- IEC Input Connector**



* Temperature and Derating curves based on CoolX1000 mounted on a 612mm x 612mm x 1.7mm conductive surface

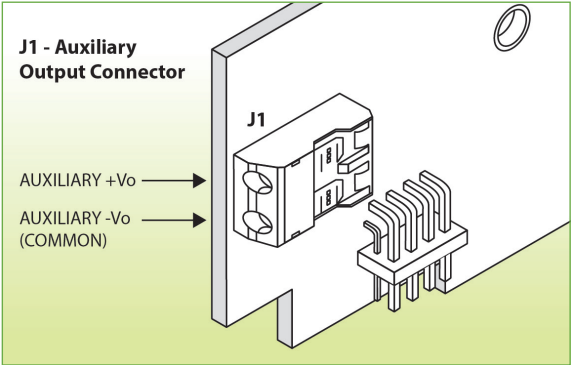
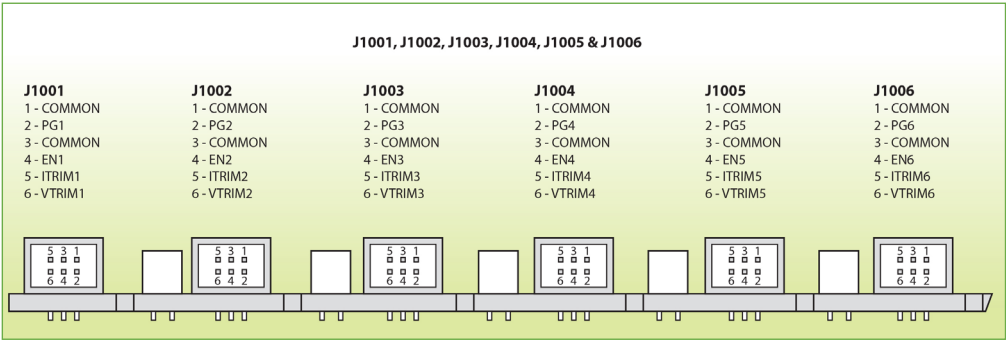
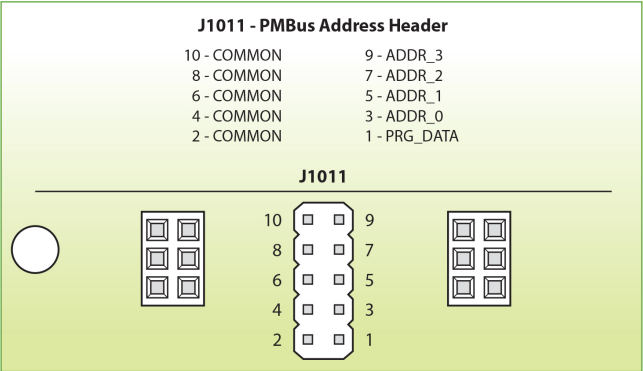
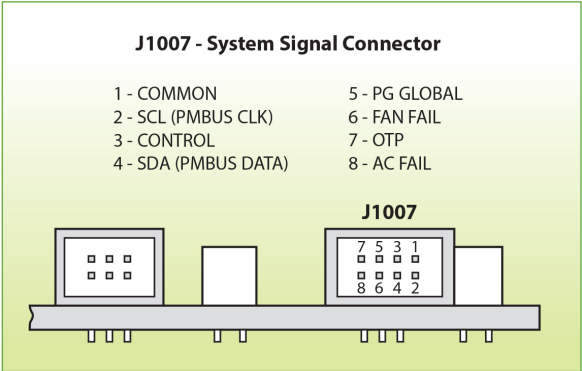
INTERFACE

Input Connectors



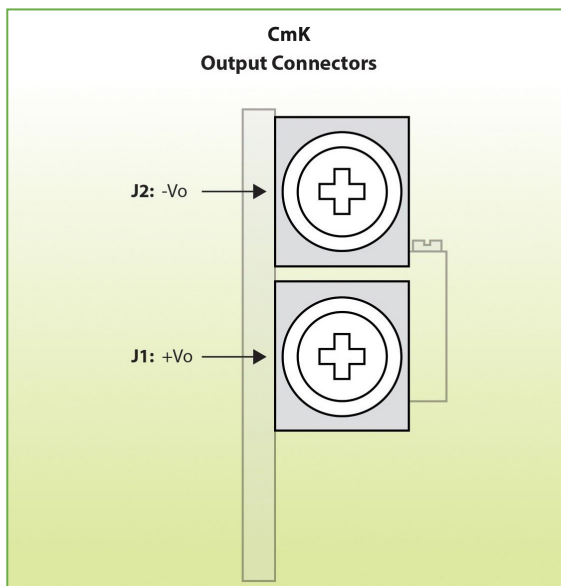
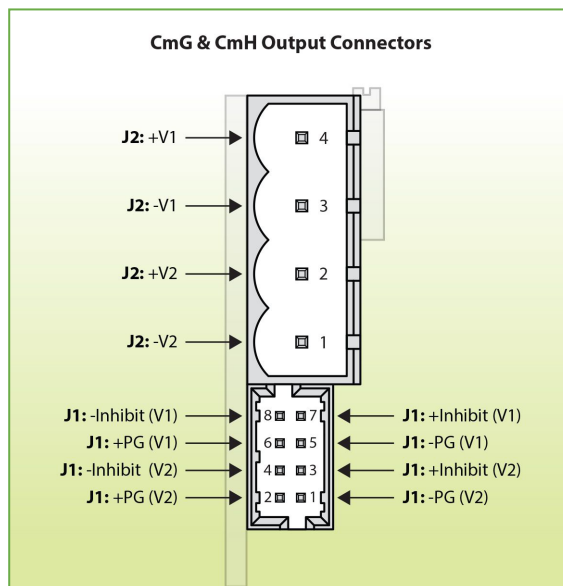
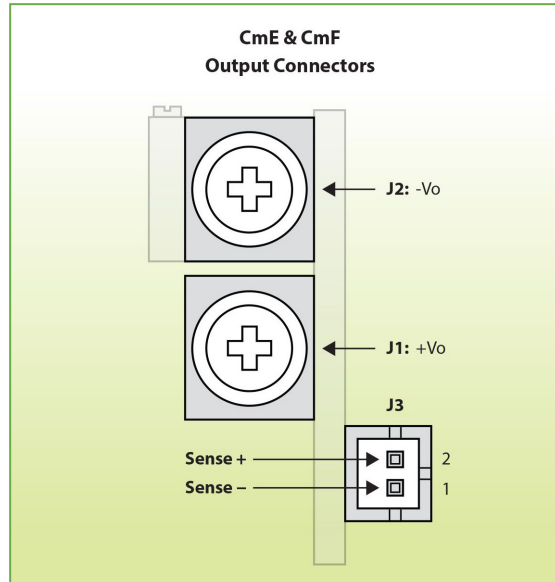
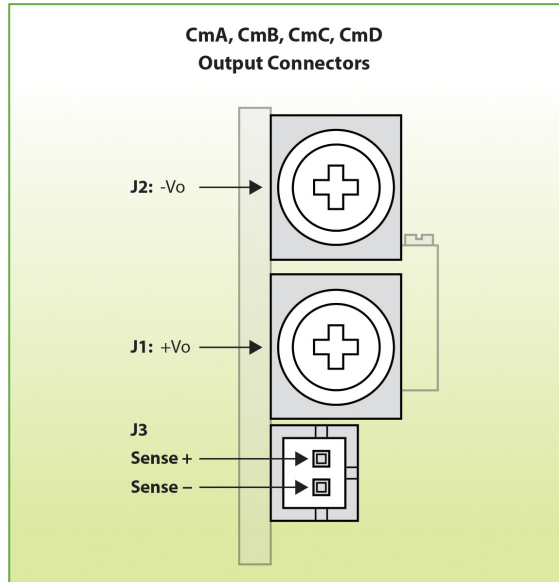
Standard (Screw Terminal)

CoolPac Connectors

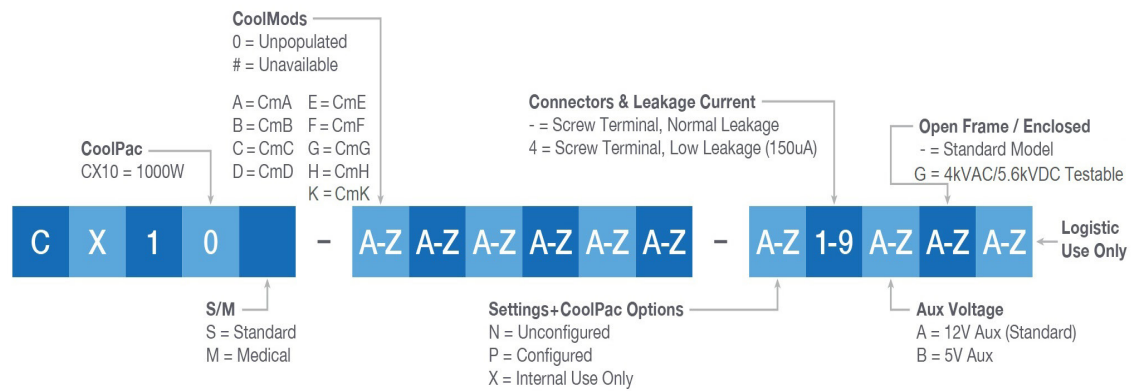


INTERFACE (CONTINUED)

CoolMod Connectors



CONFIGURATION



*CmE or CmF High Power Module (3 slot module) can only occupy Slots D/E/F.

Configuration Example 1

CoolX part number CX10S-ACD##E-N-A specifies the following product:

CX10S—1000 W IEC62368 approved

Slot 1: CmA, 5 V/21 A module

Slot 2: CmC, 24 V/8.3 A module

Slot 3: CmD, 48 V/4.16 A module

Slot 4: Unusable because slot 6 contains a CmE module

Slot 5: Unusable because slot 6 contains a CmE module

Slot 6: CmE, 24 V/25 A module

Option N: Nominal output voltage settings

Option A: 12V/1.95 A bias supply voltage

Configuration Example 2

CoolX part number CX10M-ABCCDH-PB specifies the following product:

CX10M—1000 W IEC60601-1 approved

Slot 1: CmA, 5 V/21 A module

Slot 2: CmB, 12 V/15 A module

Slot 3: CmC, 24 V/8.3 A module

Slot 4: CmC, 24 V/8.3 A module

Slot 5: CmD, 48 V/4.16 A module

Slot 6: CmH, 5 V/6 A and 24 V/3 A dual module

Option P: Preset required. Slot 3 and Slot 4 connected in parallel

Option B: 5 V/4.7 A bias supply voltage



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ABOUT ADVANCED ENERGY

Advanced Energy (AE) has devoted more than four decades to perfecting power for its global customers. AE designs and manufactures highly engineered, precision power conversion, measurement and control solutions for mission-critical applications and processes.

AE's power solutions enable customer innovation in complex semiconductor and industrial thin film plasma manufacturing processes, demanding high and low voltage applications, and temperature-critical thermal processes.

With deep applications know-how and responsive service and support across the globe, AE builds collaborative partnerships to meet rapid technological developments, propel growth for its customers and power the future of technology.

PRECISION | POWER | PERFORMANCE | TRUST

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Mouser Electronics

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