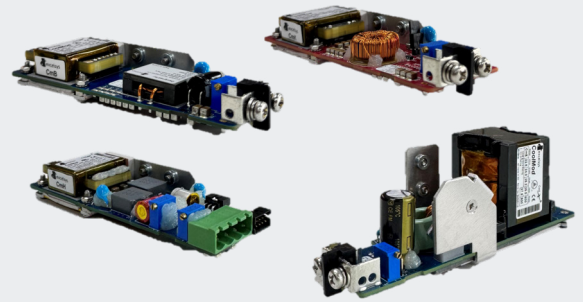


EXCELSYS COOLMODS

FOR COOLX600, COOLX1000, COOLX1800,
COOLX3000 SERIES



Advanced Energy's Excelsys CoolMods support CoolX600, CoolX1000, CoolX1800, CoolX3000 series. Please see below table for CoolMods details.

CoolX CoolMods Table						
Parameter	Vnom	Set Point Adjust Range	Max Current (CX600 and CX1000)	Power (CX600 and CX1000)	Max Current (CX1800)	Power (CX1800)
Single Output Modules (1 Slot)						
CmA	5 V	2.5-6.0 V	21.0 A	105 W	30.0 A	150 W
CmB ¹	12 V	6.0-15.0 ² V	15.0 A	180 W	23.3 A	280 W
CmC	24 V	15.0-28.0 V	8.3 A	200 W	12.5 A	300 W
CmD	48 V	28.0-58.0 ³ V	4.16 A	200 W	6.25 A	300 W
High Power Modules (3 Slots)						
CmE ⁴	24 V	24.0-25.2 V	25.0 A	550 W	37.5 A	900 W
CmF ⁴	48 V	48.0-50.4 V	12.5 A	550 W	18.75 A	900 W
Dual Output Modules (1 Slot)						
CmG ⁵ V1	24 V	3.0-30.0 V	3.0 A	90 W	4.0 A	120 W
V2	24 V	3.0-30.0 V	3.0 A	90 W	4.0 A	120 W
CmH ⁶ V1	5 V	3.0-6.0 V	6.0 A	36 W	10.0 A	60 W
V2	24 V	3.0-30.0 V	3.0 A	90 W	4.0 A	120 W
Wide Trim Modules (1 Slot)						
CmA-W01	5 V	1.0-6.0 V	21.0 A	105 W	30.0 A	150 W
CmB-W01	12 V	1.0-15.0 ² V	15.0 A	180 W	23.3 A	280 W
CmC-W01	24 V	2.0-28.0 V	8.3 A	200 W	12.5 A	300 W
CmD-W01	48 V	3.0-58.0 ³ V	4.16 A	200 W	6.25 A	300 W
High Voltage Modules (1 Slot)						
CmK ⁷	200 V	175-205 V	0.66 A	132 W	1.0 A	200 W

¹ Full dynamic specifications may not be met at full load when output voltage is trimmed 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 techsupport for details.

⁵ For the CmG module, the max combined power of both outputs is 120 W for CX600 and CX1000; and 200 W for CX1800.

⁶ For the CmH module the max combined power of both outputs is 100 W for CX600 and CX1000; and 180 W for CX1800.

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

⁷ For CX600, CmK module cannot be used in same pack as a CmE or CmF module. For CX1000 and CX1800, when a CmK module is used in the same pack as a CmE or CmF module, one module slot must remain unpopulated.

⁸ Add C to module for conformal coating, e.g. CmAC, CmAC-W01.

Complete product specification please refer to below datasheet link:

CoolX600 <https://www.advancedenergy.com/getmedia/183a169f-4baf-4009-a9cb-0edbb57d4d31/en-lv-coolx600-data-sheet.pdf>

CoolX1000 <https://www.advancedenergy.com/getmedia/bde05aca-a4be-492a-824d-8dfda90f19d8/en-lv-coolx1000-data-sheet.pdf>

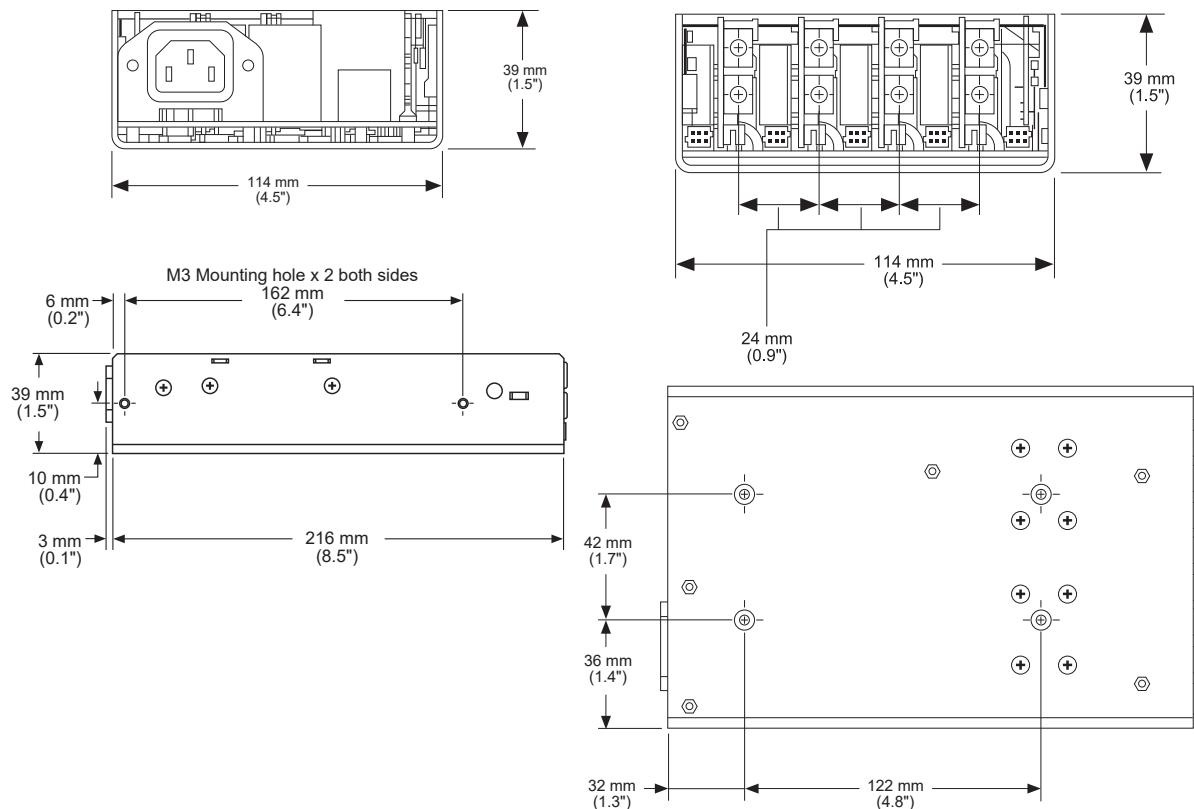
CoolX1800 <https://www.advancedenergy.com/getmedia/85fa05bf-c38a-402f-bd74-9c0e9d8074cf/en-lv-coolx1800-data-sheet.pdf>

CoolX3000 <https://www.advancedenergy.com/getmedia/98c4d4c8-7664-4394-a2c9-18375450d3cd/en-lv-coolx3000-data-sheet.pdf>

MECHANICAL SPECIFICATIONS

Mechanica Data		
Parameter	Description	Min
Dimensions (L x W x H)		215.9 mm x 114.3 mm x 39.1 mm (8.5 in x 4.5 in x 1 U)
Weight	Nominal Weight: CoolPac + 4 x CoolMods	1 Kg
Connectors	Description	Mating Connectors (if applicable)
AC/DC input terminal block	TE 2-1437667-S, DINKLE DT-35-B07W-03	—
AC/DC IEC input (Option)	IEC 320 Inlet	—
Main DC output terminal block (CmA-CmF, CmM-CmQ)	M4 Screws	—
Main DC output terminal block (CmG, CmH)	Camden - CTB9350/4A	—
Output Signal Connector (CmG, CmH)	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
System Signal Connector J1005	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 J1001-1004	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-002T-P0.5S or SPH-002T-P05S
Auxiliary Output Connector J1	Molex 1041880210 2pin	—

Mechanical Drawings (CoolIX 600)



CoolIX600 can be mounted on its base, vertically, or on its side. CoolIX600 can also be mounted on the DIN Rail Accessory (Z744).



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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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