

**ADC Dimmer Cabinets**

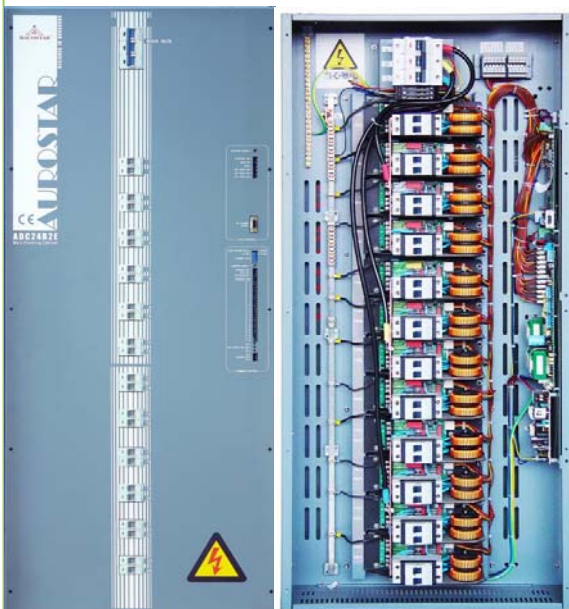
- ADC24R2E 24 ways with controller
- ADC24X2E 24 ways w/o controller
- ADC12R2E 12 ways with controller
- ADC12X2E 12 ways w/o controller

**ADC Dimmer Modules**

- ADC-10D Dual 10A dimmer module
- ADC-20D Single 20A dimmer module
- ADC-10L Dual 10A Non-dim module
- ADC-20L Single 20A Non-dim module



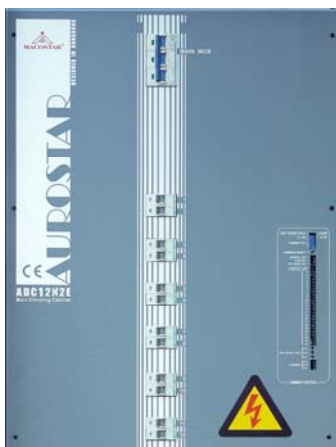
**ADC24R2E**



Front View

Inside View

**ADC12X2E**



ADC dimmer cabinet is a digital dimmer system designed for the architectural lighting control applications. The modular design offers various output power rating combined in one cabinet and this feature suits most lighting design requirements. ADC cabinet is also designed for easy installation, just like an MCB board and equips no exhaust fan ensuring it to be trouble-free after installation.

**Mechanical Data**

Construction	Zinc anodized steel sheet
Paint / finish	Blue epoxy-polyester powder paint
Mounting	Wall mounted by 4 x M8 screws (Min 300mm space at top and bottom for ventilation purpose)
Top	One 76x150mm hole for power cables 1 or 2 dia.33mm hole for signal cable
Bottom	Slot openings for air convection

**Electrical Data**

Power input	380VAC~420VAC three phases four wires plus earth OR 200VAC ~ 240VAC single phase two wires plus earth
Frequency	45Hz-65Hz auto-sensing
Main Input	80A/400V 3 phase MCB (ADC24) for max 50 mm <sup>2</sup> cable 40A/400V 3 phase MCB (ADC12) For max 35 mm <sup>2</sup> cable
RCD protection	optional 30mA RCD for 3 phases main input
Max power	ADC24R2E/ ADC24X2E: 52800 VA ADC12R2E/ ADC12X2E: 26400 VA
Channel protection	Electromagnetic MCB
Output Connector	Via 4mm terminals
Cooling fan	Not required
Signal Connection	Aurostar Bus Link (a shielded twisted pair signal cable + 2 x 1.5 sq.mm.), connect up to 32 stations each link ( 3 x links in ADC24R2E / 1 x link in ADC12R2E only) 1 x Dimmer Link (a shielded twisted pair signal cable), connect up to 32 dimmer cabinets
PC Comm Port	D9 connector at front panel (in ADC24R2E/ ADC12R2E only)
Dimmer duty cycle	100%

**Operational Data**

Signal	Aurostar Bus Link Signal input from Stations (in ADC24R2E/ ADC12R2E only) Dimmer Link (DMX512-A) signal from/to dimmer cabinets
LED Status Indicator of controller	Power, System, Aurostar Bus Link, Dimmer Link, over-temp (in ADC24R2E/ ADC12R2E only)
LED status indicator of dimmer	System, DMX signal, Bypass, Power A/B/C phase, individual channel level indicators
PC Comm Port	RS232 signal connection to PC for programming
Starting address	Set by dip switch at front panel for cabinet number and 12/24 channels
Panic	Internal 8V panic supply for remote panic switch connection; Individual channel panic selection by internal dip switch
Input DMX signal loss	Last scene hold / Clear mode
Modular design	Various modules for any combination
Dimming curve	S Law

Note: For the functions of the controller, refer to the MC3 datasheet.

**Environmental Data**

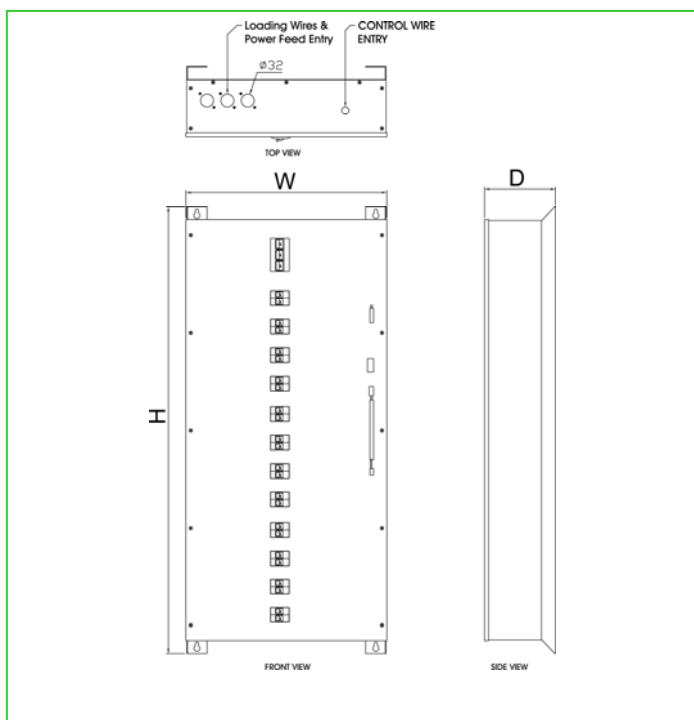
Operation humidity	5-95% non-condensing
Operation temperature	0-40°C (32-104°F)
Installation place	indoor
Heat Dissipation	2000 Btu/hr (ADC12) 4000 Btu/hr (ADC24)

**Standards**

CE LVD directives and standards complied	73/23/EEC, 93/68/EEC EN60598-1:1997
CE EMC directives and standards complied	89/336/EEC, 92/31/EEC EN61000-3-2; EN61000-3-3:1995 EN55103-1; EN55103-2:1997

**Physical Data**

Model	ADC12R2E / ADC12X2E	ADC24R2E / ADC24X2E
Weight(with full configuration)	30kg	45kg
Size mm	W / H / D 494*820*175	W / H / D 494*1250*175



**Dimmer Module**

Module	ADC-10D	ADC-20D	ADC-10L	ADC-20L
Description	Dual 10A dimmer module	Single 20A dimmer module	Dual 10A Non-dim module	Single 20A Non-dim module
MCB rating current	10A	20A	10A	20A
Channel protection	Electromagnetic MCB			
Breaking capacity	6kA			
Max. load per channel	10A	20A	10A	20A
Rise time	40µs	80µs	-	-
Compatible light sources	tungsten; magnetic low voltage; neon	tungsten; magnetic low voltage; neon	Resistive and inductive loads	Resistive and inductive loads
Connection	1. MCB output: for battery maintained circuit/ temporary circuit connection 2. Switch output: temporary dimming bypass connection 3. Dim output: normal dimming connection			
Dimmer duty cycle	100%			

**Ordering Information**

	Model No.	Ordering No.
Cabinet	ADC24R2E	A3A0
	ADC24X2E	A3D0
	ADC12R2E	A330
	ADC12X2E	A360
Module	ADC-10D	A110
	ADC-20D	A140
	ADC-10L	A130
	ADC-20L	A150

**Modules**



Dimmer Module



Non-dim Module

Macostar reserves the right to change the specification without prior notice.  
Macostar International Ltd: ADCdimmer - DATA - V1.2A - 05 Oct 2012