

M o d u l e

For Standard Dimmer Rack:

CTM-RTC	Control module
SM43N	4x3KW MCB protected circuit module
SM44N	4x4KW non-dim module circuit module
SM46N-1.1	4x6KW MCB protected circuit module
NDM46N	4x6KW non-dim module
DM43N	4x3KW dim module
DM44N	4x4KW dim module
DM46N	4x6KW dim module
FMN	filler module

For Enhanced Dimmer Rack:

CTME-2.1	Control module
NDM46EN	4x6KW non-dim module
DM43EN	4x3KW dim module
DM44EN	4x4KW dim module
DM46EN	4x6KW dim module
DM210EN	2x10KW dim module
DM/NDM46EN	4x6KW dim / non-dim module
FMN	filler module



Hybrid (Dim / Non-dim) Module



Control Module



The plug-in Dimmer Modules of DPR Dimmer Racks are defined by Standard and Enhanced models, one DPR96 Dimmer Rack configure 2 Control Module and 24 Dimmer Module slots. The latest enhanced Hybrid Dimmer Module, selectable dim and non-dim, is available for the Enhanced Dimmer Rack.

Mechanical Data

Construction	Aluminum extrude front panel and steel sheet chassis (SM46N-1 whole steel sheet construction)
Paint / finish	Epoxy powder
Component	High quality MCB, SSR, Choke
Installation	Drawer design, support hot plug
Handle	Engineering plastics handles

Electrical Data

Power of dim module	4X3KW	4X4KW	4X6KW
Max. load current per channel (continuous load)	15A	20A	30A
Dielectric strength	≥1500VAC (1mA, 1min)		
Insulation resistance	≥50MΩ (@500VDC)		
Anti-impulse interference	@1000V		
Anti-interference grade (BS800)	≥200 μs (standard model) ≥400 μs (super quiet model)		

Module Features

Channel protection	Each channel is MCB (type C) protected. By SSR, when in full conduction, the voltage drop will not exceed 1.6V It can bear up to 625A current impact Input/output isolate effect up to 4,000V/min
Dimming rise time	By wired chokes, conform to BS800: Rise time ≥200 μs Rise time ≥400 μs for super quiet model
Control module	Concentrated and Hot Standby design
Reset key	Located on control module, to reset the system

Dim module and Non-dim module

Basic function	With all the functions in ordinary dimmer modules
Non-dim	Output via relay, by pass SSR and choke
Contact material	High-temperature materials (AgSnO ₂), to protect contacts from being oxidized
Absorbing circuit	Designed with absorbing circuit for output

Environmental Data

Operation humidity	<95%, non-condensing
Operation temperature	0-40°C (32-104°F)

Standards

Anti-impulse interference	IEC1000-4-5
Fire retardant grade	UL-94-VO

Physical Data

Model	Standard	Enhanced
Dimmer module weight	5 - 10.5 kg	9.3 - 10.5 kg
Non-dim module weight	2.25 kg	10.5 kg
Hybrid module	5 - 10.5 kg	9.3 - 10.5 kg
Control module weight	1.8 kg	1.8 kg
Module size	W * D * H	W * D * H
mm	418*344*53	418*344*53

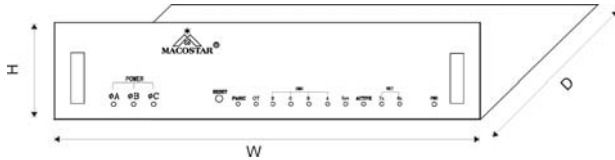
Ordering Information

Module Model	Order number
CTM-RTC	M180
SM43N	M280
SM44N	M250
SM46N-1.1	M270
NDM46N	M2C0
DM43N	M360
DM44N	M340
DM46N	M350
FMN	M620
CTME-2.1	M1A0
NMD46EN	M2H0
DM43EN	M540
DM44EN	M510
DM46EN	M520
DM/NDM46EN	M750
FMN	M620

Dimmer Module



Control Module



Macostar reserves the right to change the specification without prior notice.
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Dimmer Module

