

D i m m e r R a c k

[220V, 96channels]

DPR96A Standard model
 DPR96EA Enhanced model
 DPR96EA-L Enhanced w/ LCD

[110V, 96 channels]

DPR96B Standard model
 DPR96EB Enhanced model
 DPR96EB-L Enhanced w/ LCD



DPR96EA-L Dimmer Rack 10.4 inches touch LCD (optional)



Standard compliance:
 EN 61000-6-1; EN 61000-6-3;
 EN 55014-1; EN 55015; IEC 61000-2-2;
 EN 60950-1; EN 60439-1; EN 60439-2

Control Module



The DPR96 series dimmer rack has 24 slots available for 96 channels of 3Kw, 4Kw or 6Kw dimmer modules. Configured data of dimmers are stored in the electronics of the DPR Rack. Dimmer settings will not be affected while changing the Control Modules (CTM). The DPR-E, Enhanced models, are featured with operation-status-reporting functions to a remote PC. The DPR-L dimmer rack has a local 10.4 inches LCD touch panel installed at the front door showing the real time operation status of the connected DPR dimmer racks.

Mechanical Data

Construction	Rack: Sturdy die-casting aluminum and stamping steel Module: Solid aluminum
Paint / finish	Epoxy powder
module	Support up to 24 dim/non-dim module (96 channels) And 2 hot standby control modules
Front door	Front door can be opened for easy plug modules
Back plate	Back plate can be removed for easy access the load
LCD screen	10.4 inches touch LCD (only for DPR96EA-L / DPR96EB-L)

Electrical Data

Model	DPR96A / EA / EA-L	DPR96B / EB / EB-L
Voltage	190V-240V, (A, B, C to N)	100V-120V, (A, B, C to N)
Frequency	45Hz-65Hz	
Max. current	1090A/phase	
Min. Load	40W	
Dielectric strength	≥1500VAC (1mA, 1min)	
Insulation resistance	≥50MΩ (@500VDC)	
Max. working time	24 hours (@100% full load)	

Operation Data

Input signal	4 channels of DMX512 signal
Output signal	Standard DMX512 signal
Monitoring	On remote PC (only for smart type) On remote PC and touch LCD (for smart type with LCD)
LED status indicator	indicators on individual module

Dimmer Features

Control module	2 hot standby control modules
Module type	Dim module, non-dim module, dim / non-dim module
Dimming range	0% - 100%
Scene (DPR-EA)	Up to 16 scenes can be stored
Dimming curve (DPR-EA)	3 regular dimming curves (Linear / Normal / Square) Additional 15 custom defined dimming curves
Anti-interference grade (BS800)	≥200 μs (standard model) ≥400 μs (super quiet model)
Anti-impulse interference	@1000V (IEC1000-4-5)
Max. load current per channel	30A (@6KW, continuous load)
Channel protection	Electromagnetic MCB
Ventilation system	Smart exhaust, auto adjust fan speed
Self testing function	Function test of the system
Terminal resistor	On / Off (by jumper setting)

Environmental Data

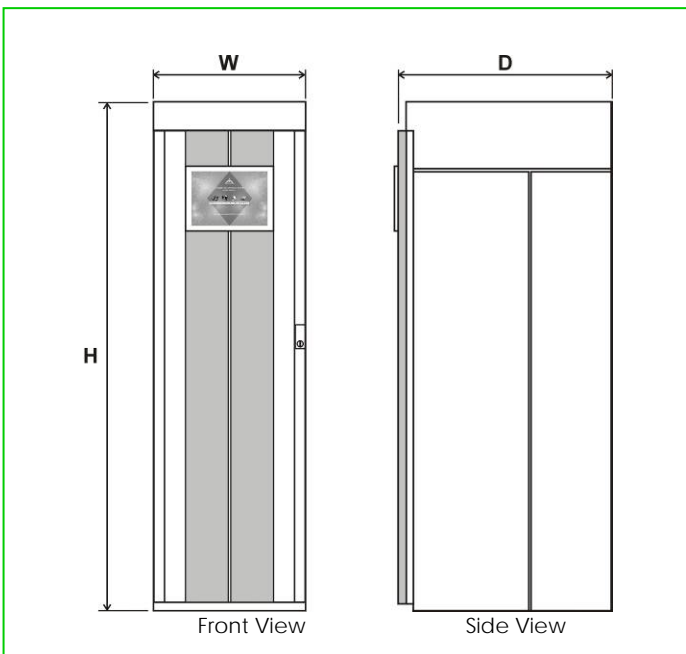
Operation humidity	<95%, non-condensing
Operation temperature	0-40°C (32-104°F)

Standards

Protection grade	IP2XB
Fire retardant grade	UL-94-VO

Physical Data

Model	DPR96A DPR96B	DPR96EA DPR96EB	DPR96EA-L DPR96EB-L
Rack weight	110 kg	110 kg	110 kg
Weight with full configuration	165 kg	165 kg	165 kg
Rack size mm	W *D* H 512*720*1718	W *D* H 512*720*1718	W *D* H 512*720*1718



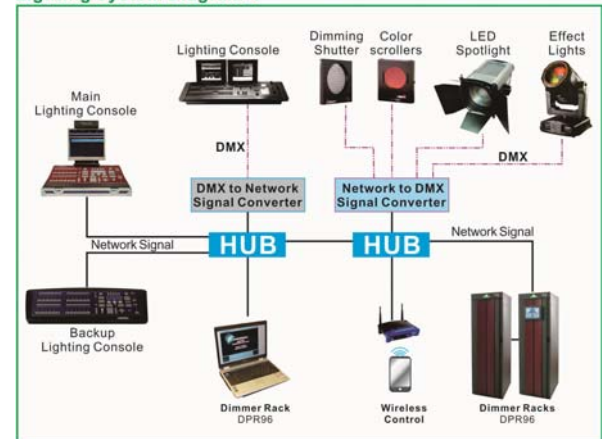
Ordering Information

Rack Model	Order number
DPR96A	D1N0
DPR96EA	D1Q0
DPR96EA-L	D1P0
DPR96B	D1U0
DPR96EB	D1R0
DPR96EB-L	D1V0

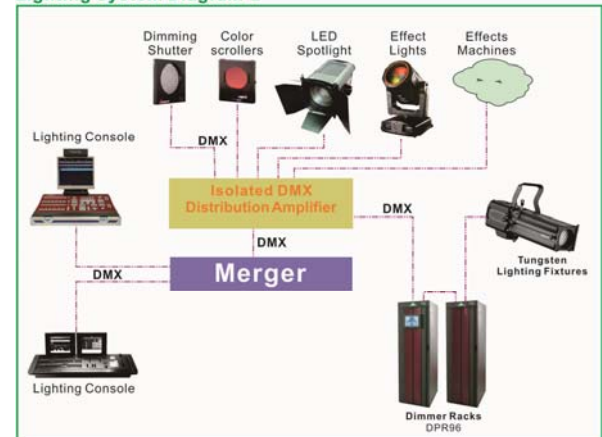
Note: the order number above is for rack body only.

Lighting System Diagrams

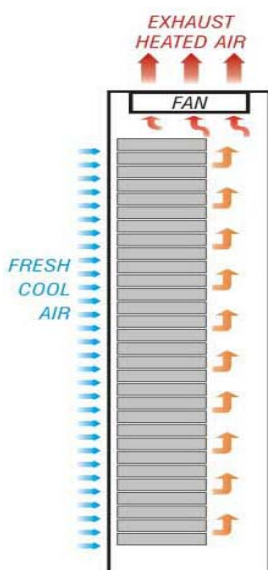
Lighting System Diagram-1



Lighting System Diagram-2



Ventilation System



Smart Exhaust:

The system detects temperature rise inside the rack and adjusts the rate of air flow accordingly. Normally, when fan maintains low speed, it will make lower noise.

