

NDD120 – 120W DIN Rail DC/DC Converter

- High efficiency and compact size
- > 125% overload capability
- Wide input voltage range



For reference only

TECHNICAL DATA

	NDD120-1212	NDD120-1224	NDD120-2412	NDD120-2424	NDD120-4812	NDD120-4824			
OUTPUT DATA									
Rated voltage	12Vdc	24Vdc	12Vdc	24Vdc	12Vdc	24Vdc			
Adj. output voltage range	12...15Vdc	23...27.5Vdc	12...15Vdc	23...27.5Vdc	12...15Vdc	23...27.5Vdc			
Continuous current	7A	5A	7A	5A	8A	5A			
Overload limit	9.1A	6.5A	9.1A	6.5A	12A	6.5A			
Short circuit peak current	12A / 300ms		15A / 300ms		12A / 300ms				
Load regulation	< 0.5%					< 1.5%			
Ripple	< 100mVpp			< 150mVpp	< 100mVpp	< 200mVpp			
Hold up time	> 3ms	> 1ms	> 2ms			> 6ms			
Overload/short circuit: hiccup									
Protections									
Over temperature									
Overvoltage									
Output overvoltage protection	Active > 18Vdc	Active > 33Vdc	Active > 18Vdc	Active > 33Vdc	Active > 18Vdc	Active > 33Vdc			
Parallel connection	Possible with external Oring diode					DC OK – green LED			
Status Signals						ALARM – red LED Dry contact 1A / 24Vdc			
INPUT DATA									
Input rated voltage	12Vdc (range 10.5...18Vdc)		24Vdc (range 18...36Vdc)		48Vdc (range 36...72Vdc)				
Input current @ nominal Iout	9A ±10%	12A ±10%	5.1A ±10%	5.8A ±10%	2.9A ±10%	2.8A ±10%			
Input overvoltage protection	19Vdc active shutdown		38Vdc active shutdown		76Vdc active shutdown				
Internal protection fuse	Fuse 20AT / 250Vac		Fuse 10AT / 250Vac		Fuse 8AT / 250Vac	Fuse 5AT / 250Vac			
External protection on AC line	MCB 25A C curve		MCB 13A C curve		MCB 6A C curve				
GENERAL DATA									
Efficiency	> 80%	> 83%	> 87%		> 89%	> 90%			
Dissipated power	< 25W		< 16W	< 18W	< 17W	< 13W			
Operating temperature	- 20°C...+ 50°C (over temperature protection)								
Derating	No derating								
Overvoltage category	II								
Pollution degree	2 (IEC 664-1)								
Input / output isolation	2.2kVdc								
Input / ground isolation	1.41kVdc								
Output / ground isolation	0.75kVdc								
Standards & Approvals	EN60950 (reference), CE marking								
EMC Standards	EN61000-6-2, EN61000-6-4								
Protection degree	IP20 acc. to EN60529								
Connection terminals	2.5mm ² , screw type pluggable (24...12AWG)								
Case material	Aluminum								
Approx. Weight	0.550kg								
Size (W x H x D)	54.0 x 115.0 x 110.0mm								
Mounting rail	IEC 60715/H15/TH35-7.5-(15)								
Rail mounting information	Vertical, allow 10mm spacing between adjacent items								