

DP500IP Series

720 - 828 WATTS HIGH SURGE AC/DC SUPPLY

FEATURES

- 720W - 828W
- Water Resistant IP67
- Very high transient robustness
- High Surge Current
- Ideal for Motors and Pumps
- Extensive protection
- Very low standby power
- No Inrush Current
- Active PFC
- High Operating temperature
- Chassis Mounting

SPECIFICATIONS

INPUT

Input voltage range	85 - 276Vac
Frequency	45-65Hz
Power factor	> 0.98
Input Fuse	T10A / 250V Internal Additional external fuse is not necessary
Input Current	Max 3.5A @ 230Vac at nominal load
Transient voltage protection	Varistor (4.5kA/120J)

Inrush current	No inrush current, (active regulated limitation)
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OUTPUT

Output voltage	12Vdc, 13.8Vdc, 24Vdc, See Selection Table
Output current	See Selection Table
Output current	See Selection Table
Current Limiting	150% for 5s power boost

No load power consumption	Typ. < 2W
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Start with capacitive loading	No limit
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Voltage Tolerance	+/-1% over range
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Turn on delay	< 1 sec
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Ripple and Noise	<150mVpp
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Line regulation	<0.2% (typ.0.02%)
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Load regulation	<0.5%
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Rise Time	<50ms
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ENVIRONMENTAL

Operating temperature	-25°C...+85°C (55...85°C:Derating 1.5%/°C)
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Humidity	100%
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Over temperature	Protective shut down, self reset after cool down
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Cooling	Cooling via contact to mounting surface
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Max altitude	4000m
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Formation of ice	Allowed
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OPERATING

Signals	Green LED 'DC OK' Blinking, DC not ok
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Efficiency	93%
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Isolation	Input/Output + Chassis 3kVac Output/Chassis: 500Vdc
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MTBF	>1,000,000h, IEC1709 (SN 29 500)
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STANDARDS

Electrical safety	EN60950, EN50178, GOST
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EMC	EN55011 Class B, EN61000-6-2
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Current Harmonics	EN61000-3-2
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HF-Emission	EN55011 Class B
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Immunity	EN61000-6-2
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Insulation voltage	EN60950
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MECHANICAL

Dimensions	185 x 56 x 134mm , See Technical Illustrations
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Degree of protection	IP67
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Input Connector	Cable without connector plug (length 1m), 3-pole (L, N, PE) Conductor cross section 1,5 mm ² (AWG16)
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Output Connector	Cable without connector plug (length 1m), @ 24V 2-pole - black (GND), white (+) Ø AWG 12 (3,3mm ²) @ 12V 2-pole - black (GND), red (+) Ø 6mm ²
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SELECTION TABLE

MODEL NUMBER	OUTPUT VOLTAGE	OUTPUT CURRENT	PEAK CURRENT	POWER
DP500IP-12	12VDC	40A	60A	720W
DP500IP-13.8	13.8VDC	40A	60A	828W
DP500IP-24	24VDC	20A	30A	720W

TECHNICAL ILLUSTRATIONS

