









■ Main Features

-) High efficiency and compact size
- J Output voltage programmable at 24Vdc or 36Vdc
- J 250mm width aluminum enclosure
- J Active PFC
- J Hiccup mode current limitation
- J Temperature controlled fan cooling (high reliability)
- Remote Enable signal
- J Enhanced input transient overvoltage immunity
-) Wall mount fixing possible

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TECHNICAL DATA

NPSM1500-36 24Vdc or 36Vdc user programmable 40A > 41A, hiccup mode current limitation ≤ 1.5% ≤ 500mVpp (@36Vdc out) ≥ 25ms ad, short circuit al protection undervoltage lockout t overvoltage Active, >32Vdc for 24V mode / >48Vdc for 36V mode - green LED (on when output voltage is regulated) - green LED (on when input voltage is present) JTD ISABLED - yellow LED (on when the input voltage is present) JTD ISABLED - yellow LED (on when the input voltage is present and the output is disable trough the enable signal) - red LED (on when the unit is in thermal protection or when an internal / external fault occurs) 6V selection - 2 yellow LEDs (on when the unit is set at 24V/36V respectively) 6V selection switch - internal switch protected by cover on the enclosure connector for remote status signalling. le for power or redundancy (with external ORing module) Nominal: 120240Vac Range: 90264Vac 4763Hz 110345Vdc 15A 7A 15A 5A Active, PF > 0.9 ≤ 25A / 0.09A²s ential overvoltage (L to N) with 275Vac varistor (VDR) on mode overvoltage (L to N) eight in the content of the conten
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≤ 3mA
Fuse 20AT
Fuse 20AT or MCB 16A C curve
It is strongly recommended to provide external surge arresters (SPD) according to local regulations.
> 91.5%
< 133W
- 40°C+ 70°C
0.75A/°C over 50°C
- 40°C+ 80°C
595% r.H. non condensing
174'631h (19.94 years) at 25°C ambient full load
DBK-217F > 600'000h at 25°C full load
78 III
664-1 2
ı
4.2kVdc
2.2kVdc
0.75kVdc
(reference)
50 (reference)
78 (reference)
11 (CISPR11) Class A
00-3-2 Class A
00-4-2 Level 3
00-4-3 Level 3
00-4-4 Level 4
00-4-5 Level 4 tested up to 6.6kV peak
00-4-11 Level 2
00-4-11 Level 2 29 IP20
29 IP20
29 IP20 068-2-6 (5-17.8Hz: ±1.6mm; 17.8-500Hz: 2g 2hours / axis (X,Y,Z)
29 IP20
29 IP20 068-2-6 (5-17.8Hz: ±1.6mm; 17.8-500Hz: 2g 2hours / axis (X,Y,Z)
29 IP20 068-2-6 (5-17.8Hz: ±1.6mm; 17.8-500Hz: 2g 2hours / axis (X,Y,Z) 068-2-27 (30g 6ms, 20g 11ms; 3 bumps / direction, 18 bumps total)
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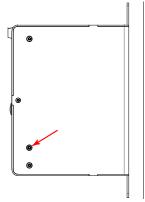
Case material	Aluminum
Weight	3.85kg
Size (W x H x D)	250 x 170 x 132mm

- 1) Ripple and Noise are measured with 20MHz bandwidth, probe terminated with a 1µF MKP parallel capacitor.
 2) Peak current measured after 0.2ms from main connection; 240Vac/50Hz; Ambient temperature at 25°C; Cold Start.
- 3) Start-up type tested: 40°C, possible at nominal voltage with load deration.
- 4) The unit is provided with a Gas Discharge Tube (GDT) connected between AC input and PE; to perform dielectric strength test (Hi-Pot test) the GDT must be disconnected, see relevant section for details.

Notes:

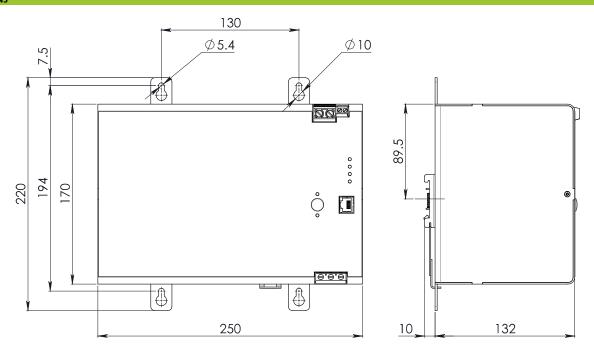
- Technical parameters are typical, measured in laboratory environment at 25°C and 240Vac / 50Hz, at nominal values, after minimum 5 minutes of operation.
- Power rating, losses, efficiency, ripple, thermal behaviour and start-up may change outside of the nominal rated input range. Contact factory for details.
 Data may change without prior notice in order to improve the product.

GDT DISCONNECTION



Prior to perform the dielectric strength test (Hi-Pot test) the screw indicated in the image has to be removed. This screw connects the GDT to the chassis PE. The dielectric strength test will fail if the screw is not removed. Put the screw back in place after the test to guarantee the enhanced surge immunity protection.

DIMENSIONS



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CONNECTION



Input Connection: **Output Connection:**

Single phase:

- L = Line
- N = Neutral
- I = Earth ground

- L = + Positive DC
- N = Negative DC
- I = Earth ground

- += Positive DC
- -= Negative DC

Enable Connection:

Connect the 2 terminals together to enable the output

Note: Enable connector is not insulated from the DC output

Enable open voltage: 12V Enable current: 6mA

Remote Panel Connection RJ-45:



- PIN1: GND
- PIN2: AC-OK LED
- PIN3: 36V OK LED
- PIN4: 24V OK LED ■ PIN5: FAULT LED
- PIN6: RESERVED (do not use)
- PIN7: RESERVED (do not use)
- PIN8: N.C. (Not Connected)

LEDs maximum voltage: 4V LEDs nominal current: 3mA

AC-OK LED: on when the input voltage is present.

36V LED: on when the input

output voltage is regulated at 36V. on when the input output voltage is 24V LED:

regulated at 24V. FAULT LED:

on when the unit is in thermal protection or when an internal fault

occurs.

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