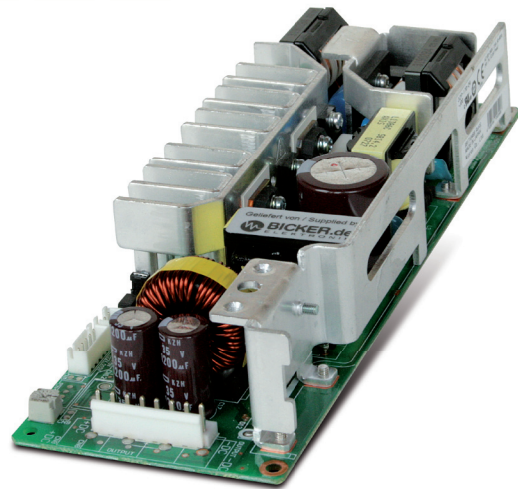


OZP-170 series

210 Watt

- 168 Watt continuous fanless power
- Exceptionally rugged and long-lasting
- High efficiency up to 86 %

OZP-170 single voltage power supplies stand out through their high peak performance. Thus they are ideal for e.g. high-performance thermo transfer printers. Output voltage for the OZP-170-12/15 is selectable as required between 12 V and 15 V. In the „JB0“ version the OZP-170-24 is also available with a backup function. In case of a power failure the output is supplied via the NiMH battery pack.



Industry

Technical data

Input voltage	85...264 VAC, active PFC
Input frequency	47...63 Hz
Input current	2.6 A / 100 VAC, 1.4 A / 200 VAC (210 W)
Inrush current	<17 A / 100 VAC, <34 A / 200 VAC, +25 °C
Efficiency	82...86 %
Hold up time	App. 20 ms
Protection	Short circuit protection: Switch off with auto-recovery Overload protection: Switch off with auto-recovery Overvoltage protection: Switch off (model / response threshold) OZP-170- 12 /15 (13.8...16.2 V), OZP-170-12/ 15 (17.3...20.3 V), OZP-170-24 (30...35 V)
Line regulation	<94 mV
Load regulation	<150 mV
Earth leakage current	<0.5 mA / 200 VAC
Safety / EMC	TÜV, UL, CE
Operating temperature	-10...+70 °C
Derating	Depending on mounting position and temperature (see diagrams on page 2) Input voltage 95...85 VAC, 1 % / VAC
MTBF	>268 000 h according to EI AJRCR-9102
Storage temperature	-20...+75 °C
Operating humidity	20...90 % RH, non-condensing
Dimensions (WxDxH)	73 x 222 x 40 mm ±0.5mm (With optional cover: 83 x 252 x 51 mm)
Weight (net)	0.5 kg (With optional cover: 0.8 kg)

Product specific data

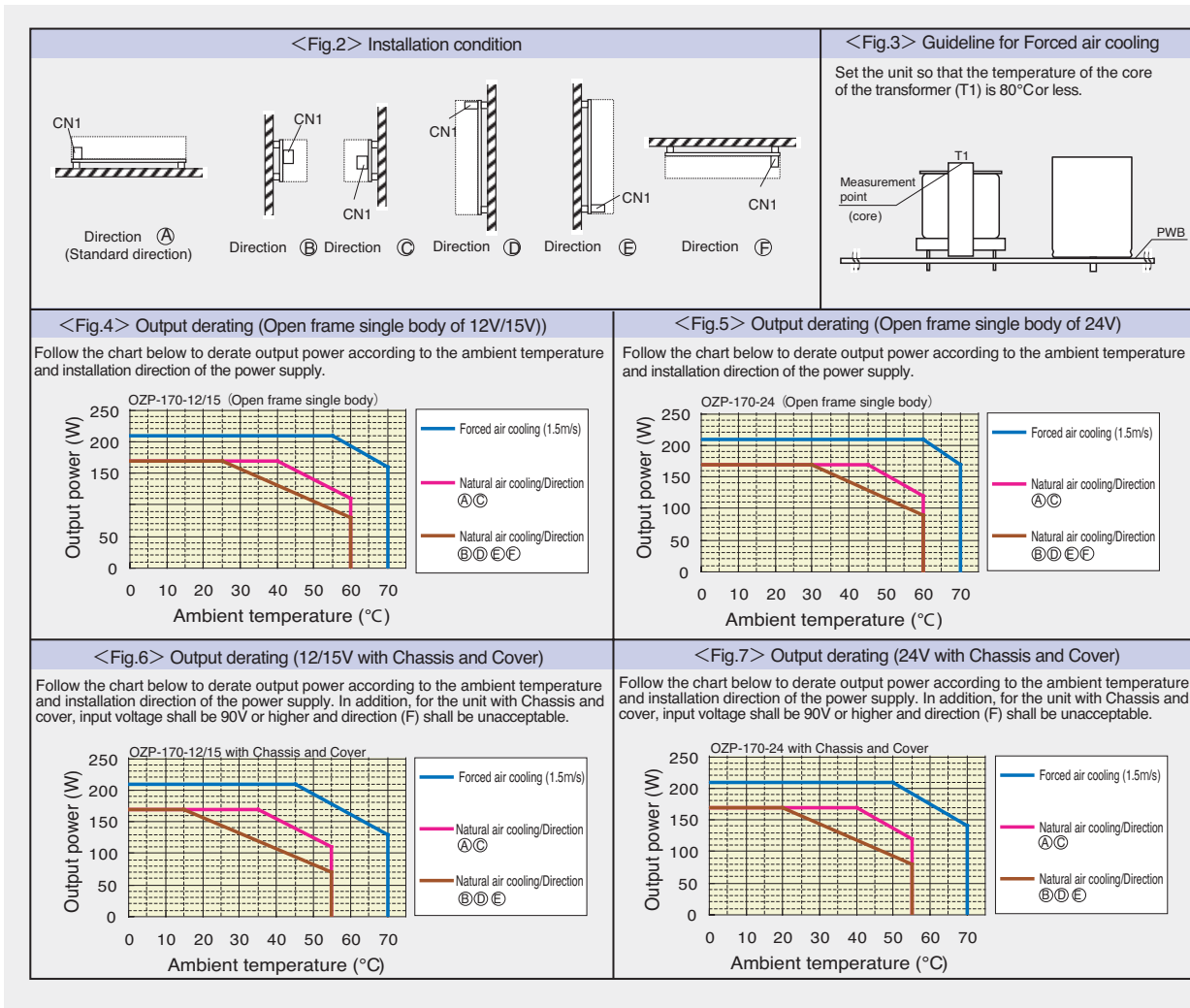
OZP-170-12/15	Change-over via jumper CN9 (12 V CN9 plugged, 15 V CN9 open)
Adjustment range	OZP-170- 12 /15: ±10 %, OZP-170-12/ 15 : -5 % / +10 %, OZP-170-24: -5 % / +20 %
Backup function	OZP-170-24 with battery packs BS14A-H24/2.5L

Article No.	Output voltage	Output current				Ripple & Noise	Efficiency
		min	rated load	fanless	peak		
OZP-170- 12 /15	+12 V	0 A	14 A	17.5 A	22,5 A	<180 mV _{SS}	85 %
OZP-170-12/ 15	+15 V	0 A	11.2 A	14 A	18 A	<180 mV _{SS}	85 %
OZP-170-24	+24 V	0 A	7 A	14 A	8.8 A / 12.5 A	<180 mV _{SS}	85 %

Max. continuous power is 168 W (convection), 210 W (fan cooling), 270 W (Peak OZP-170-12/15) and 300 W (Peak OZP-170-24). Peak load can be for 10 sec. Ripple and noise was measured by a 100 MHz-oscilloscope with connected 10 µF electrolytic capacitor and 100 nF ceramic capacitor at each output.

This power supply is for assembly purposes only and it must not be operated in unassembled condition. The final assembly has to comply with the valid EMC standards.

Derating OZP-170 series

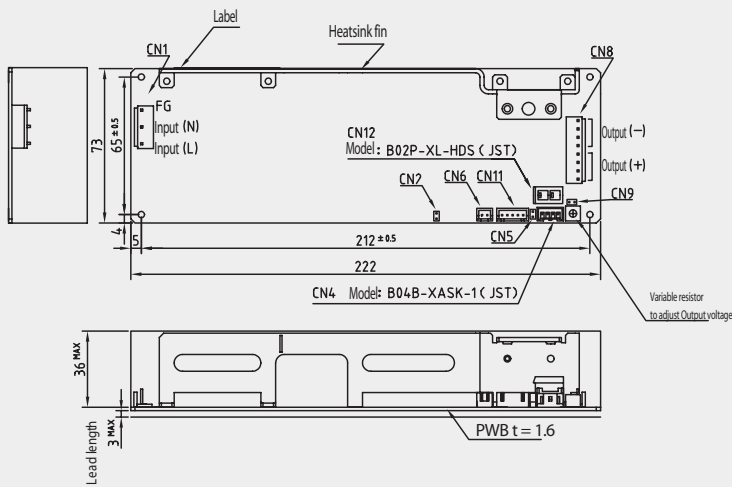
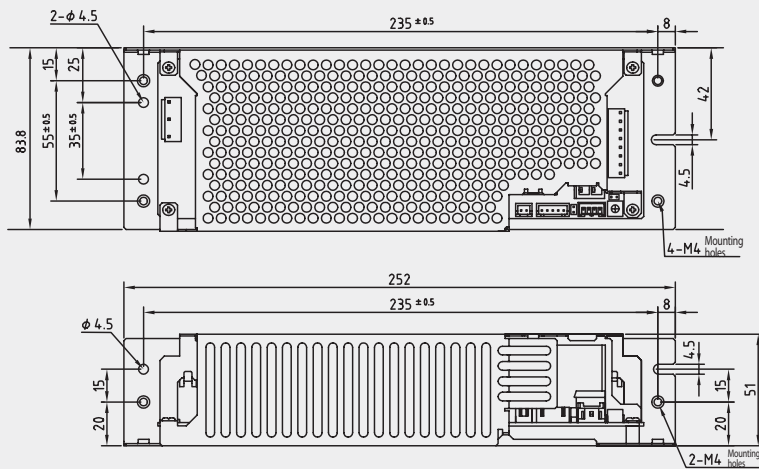


Industry

Connector plug

Nylon connector	Terminal block	European terminal
<p>Adjustment of output voltage</p>	<p>12 V / 15 V switch</p>	<p>Backup function (Nur OZP-170-24)</p> <ul style="list-style-type: none"> • AC FAIL is equipped. • Approx. 8 minutes backup time with 170W load. • Capacitor-backup system is in plan.

Drawing OZP-170 series



Dimensional tolerance shall be ± 1 . However, ± 0.5 mounting.

Tightening torque for chassis at power supply mounting hole: 1.5Nm Max.

CN4, CN5, CN9, and CN12 are provided when they are supported.

Nylon connector

5 3 1		
CN1 (INPUT)		
PIN No.	FUNCTION	CONNECTOR TYPE
1	AC(L)	B3P5-VH (JST)
2		
3	AC(N)	
4		
5	FG	
*CN1 Applicable housing : VHR-5N (JST) Applicable terminal : SVH-21T-P1.1 (JST)		
8 1		
CN8 (OUTPUT)		
PIN No.	FUNCTION	CONNECTOR TYPE
1-4	-DC	B8P-VH (JST)
5-8	+DC	
*CN8 Applicable housing : VHR-8N (JST) Applicable terminal : SVH-21T-P1.1 (JST)		
2 1		
CN6 (RC SIGNAL)		
PIN No.	FUNCTION	CONNECTOR TYPE
1	+RC	B2B-XH (JST)
2	-RC	
*CN6 Applicable housing : XHP-2 (JST) Applicable terminal : SXH-001R-P0.6 (JST)		
5 1		
CN11 (SIGNAL)		
PIN No.	FUNCTION	CONNECTOR TYPE
1	+BATT_LOW	B5B-XH (JST)
2	-BATT_LOW	
3		
4	+AC_FAIL	
5	-AC_FAIL	
*CN11 Applicable housing : XHP-5 (JST) Applicable terminal : SXH-001T-P0.6 (JST)		

Connector name	Function	OZP-170-12/15- * * 0 *	OZP-170-24- * * 0 *	OZP-170-24- * * B *
CN4	Signal to control battery package	-	-	Available
CN5	Backup shutdown operation	-	-	Available
CN9	12V/15V output voltage selection	Available	-	-
CN12	Battery package Input/Output	-	-	Available