

DC Power Supply FZP series

FZP Series Single Output



Output power up to 10 kW
Voltage and current regulated
Primary switched mode
Master - slave - operation possible
Programming current - voltage
19" rack mounting
extremely compact and ruggedly designed

Option: Installed Interface Euro Card IEEE 488.2
(GPIB)/RS232 with Lab View Driver INT2E series
Integrated USB1.1 interface with driver software
External CAN Open Interface (on request)

Selection Table

Model Number	Output Voltage / Current (V) / (A)	Power (kW)	Input Voltage (V) / Phase
FZP3/20/150	0 - 20 / 0 - 150	3	230 / 1
FZP10/25/400	0 - 25 / 0 - 400	10	400 / 3
FZP3/36/85	0 - 36 / 0 - 85	3	230 / 1
FZP6/36/160	0 - 36 / 0 - 160	6	400 / 3
FZP10/36/280	0 - 36 / 0 - 280	10	400 / 3
FZP3/48/65	0 - 48 / 0 - 65	3	230 / 1
FZP6/48/120	0 - 48 / 0 - 120	6	400 / 3
FZP10/48/210	0 - 48 / 0 - 210	10	400 / 3
FZP6/52/115	0 - 52 / 0 - 115	6	400 / 3
FZP10/52/190	0 - 52 / 0 - 190	10	400 / 3
FZP3/72/45	0 - 72 / 0 - 45	3	230 / 1
FZP6/72/80	0 - 72 / 0 - 80	6	400 / 3
FZP10/72/140	0 - 72 / 0 - 140	10	400 / 3
FZP3/96/35	0 - 96 / 0 - 35	3	230 / 1
FZP6/96/60	0 - 96 / 0 - 60	6	400 / 3
FZP10/96/105	0 - 96 / 0 - 105	10	400 / 3
FZP6/120/50	0 - 120 / 0 - 50	6	400 / 3
FZP3/140/25	0 - 140 / 0 - 25	3	230 / 1
FZP6/140/42	0 - 140 / 0 - 42	6	400 / 3
FZP10/140/72	0 - 140 / 0 - 72	10	400 / 3
FZP10/150/50	0 - 150 / 0 - 50	7,5	400 / 3
FZP3/300/10	0 - 300 / 0 - 10	3	230 / 1
FZP10/400/25	0 - 400 / 0 - 25	10	400 / 3

Technical Data

Input:

Input voltage	FZP3: 230 V $\pm 10\%$ 1 phase 50 / 60 Hz FZP6/FZP10: 400 V $\pm 10\%$ 3 phase 50 / 60 Hz
Inrush current	< 5 A
Power factor	FZP3: 0,99

Output:

Output voltage (DC)	see table
Output current	see table
Efficiency	$\geq 80\%$

Regulation:

Line regulation (AC line change 10%)	voltage 0,1% Uout current 0,1% Iout
Load regulation (99% load change)	voltage 0,1% Uout current 0,1% Iout
Stability after 8 h working time and const. ambient temp.	0,1%
Dynamic response set in U-const. Mode	< 2 ms at load change 1% – 100%, nominal value change 1%–100%, neg. nominal value change 100% – 80% (at I > 100 A)
Absolute accuracy	0,5% I _{max} , U _{max}
Reproducibility	0,1%
Ripple and noise	< 0,5% U _{max}
Temperature coefficient	voltage: 0,05% / K current: 0,1%/K
AC-line undervoltage protection	shut down

Protection:

Overload protection	short circuit protection
Thermal protection	shut down, auto recover
Undervoltage protection	shut down

Environmental Conditions:

Operating temperature	0 – + 40°C
Derating	3,3%/ °K
from + 40 – + 70°C	
Cooling	int. fans, temperature controlled

Operation and Control:

Programming analog	voltage and current: 0 – 10 V = 0 – 100% Uout , Iout
Programming digital only with Option INT2	Contol: U und I nominal value presetting U and I Monitor signals, Power ON/OFF, isolated Bus - signals and analog signals; isolation between digital signals; SCPI-programmable (IEC625-2); programming of analog value with absolute values max. three same units 3 units with same Uout same units (total voltage ≤ 150 V)
Master - slave - mode	standard
Parallel operation	voltage and current, LED, 3½ digits
Series operation	voltage and current 10 - turn potentiometer
Remote sense	
Instruments	
Adjustment	

Physical Specifications:

Dimensions	FZP3/FZP6: 19", 3 U, depth 400 mm with connections 450 mm FZP10: 19", 6 U, depth 420 mm with connections 470 mm
Weight	FZP3 19 kg FZP6 21 kg FZP10 32 kg