

AC/DC power supply unit

KAN-D product line **KAN-D150, 150 W**



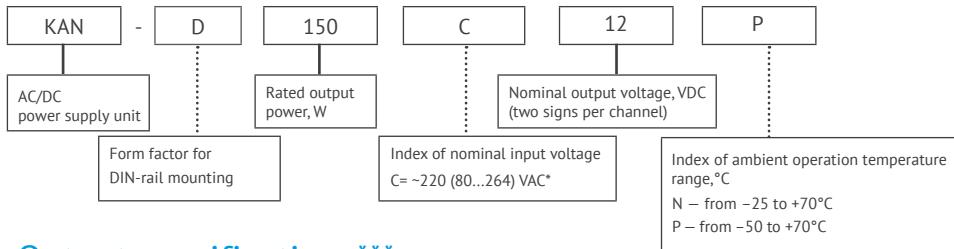
Global Data

Power	150 W
Output current	up to 12,5 A
Input voltage	~220 (80...264) V
Output voltage	=12 V; =24 B; =48 V
Efficiency	≥90%
Ambient operating temperature	-25...+70 °C; -50...+70 °C
Dry contact.....	based on high-current relay
EMC standart	ENC55022 (CISPR22)
Replacement/Installation	Toolless
Installation.....	DIN rail
Dimentions	42×134×131 mm
Warranty	2 years

Advantages

- ◀ Parallel connection without additional components
- ◀ Compliance with SIL2 safety level
- ◀ Operation from -50 °C
- ◀ Serial connection

Ordering information



Output specifications***

Parameter	Value			
Model	KAN-D150C12P	KAN-D150C24P	KAN-D150C48P	
Nominal output voltage, VDC	12	24	48	
Output voltage adjustment range, MBCB	Built-in potentiometer ±16,7 % by Adj.U*** -4...+4 %	10...14 11,4...12,6	20...28 22,8...25,2	40...52 25,6...50,4
Efficiency, %	≥ 90			
Rated output current, A	12,5	6,25	3,13	
Ripple and noise (peak-to-peak)	<2%			
Line and load regulation	no more 2%			
Start-up time***, sec	1 (Uin=220 VAC)			
Dry contact	Relay contacts dry contact(open state - voltage in nominal range)			
Serviceability output signal	Dry contact	Maximum switchable voltage and current	250 VAC/ 30 VDC/ 10 A	
		Relay current consumption, mA	90 45 25	
		Relay cut-off voltage, V	8...10 18...20 36...40	
	"Diag" output			
Parallel operation***		without additional components		
Remote shutdown		off when 5...20 V (3...18 mA) is applied to the "remote control" terminals (polarity must be observed)		
Maximum load capacity, uF		33000	20000	5000

Input specifications*

Parameter	Value	
Input voltage range, VAC	~80...264 =112...372	
Mains frequency range, Hz	47-63 AC 0 DC	
Consumed current, A	1.39 (~120 V) 0.76 (~220 V)	
Inrush current pulse	25 A	
Pre-fuse	5 (inert type, internal)	
Power factor corrector	active	
Power factor	~115 V; Pmax	0,99
	~230 V; Pmax	0,95

* For KAN-D150CX

** All specifications are valid for normal climatic conditions Uin.nom., Iout.nom., unless otherwise noted.

*** Adjustment is performed by applying 0...5 V voltage to the lead Adj.U pin (0 V = Uout.nom + 4 %; 5 V = Uout.nom - 4 %).

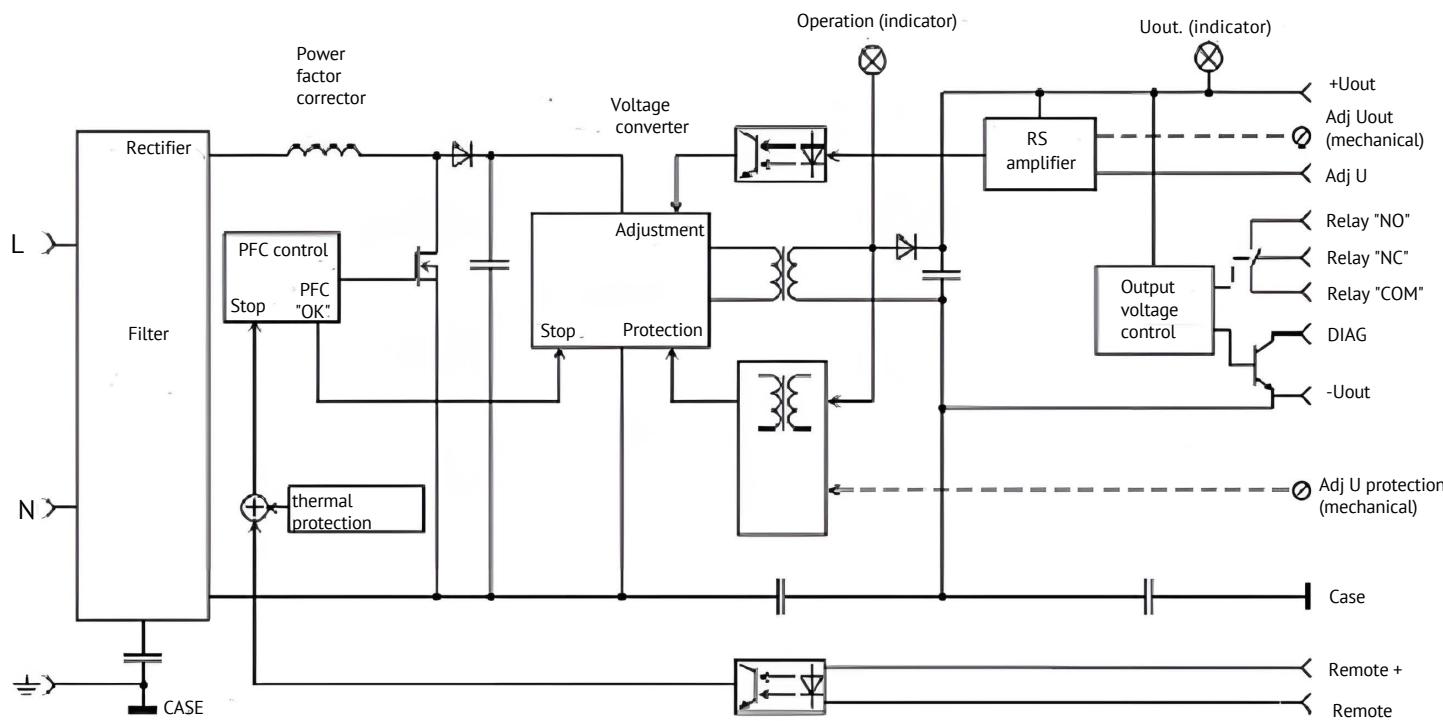
Protections

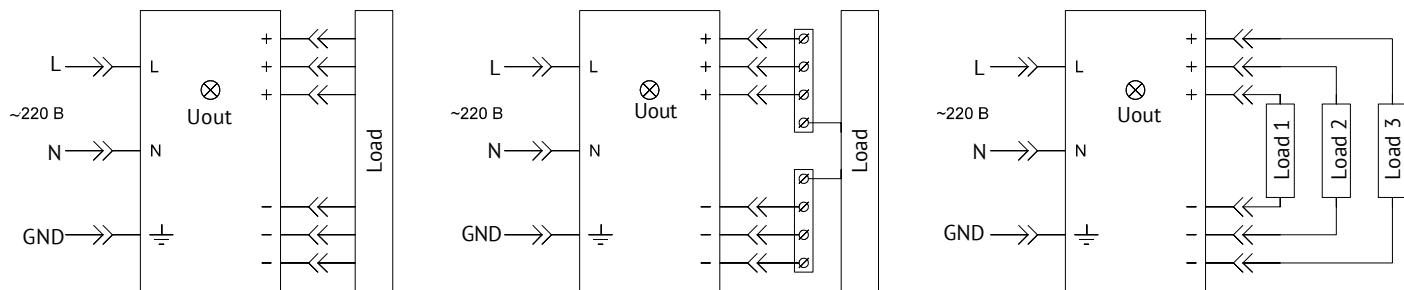
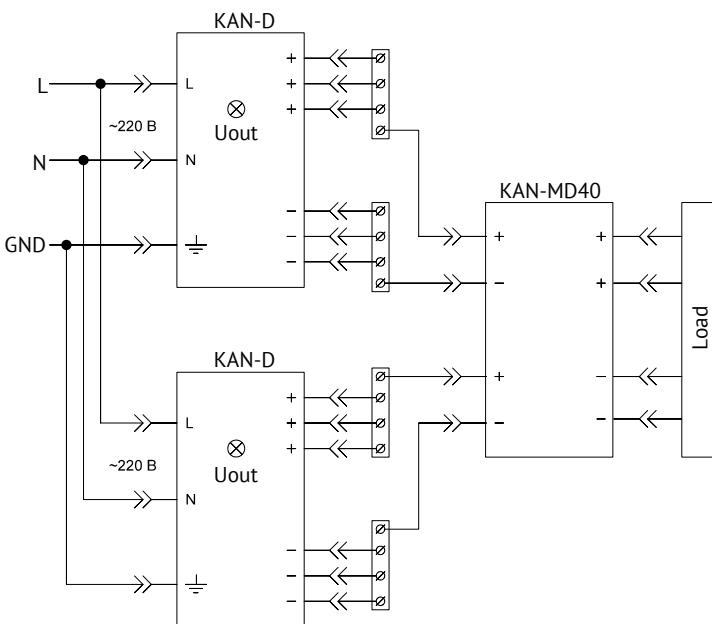
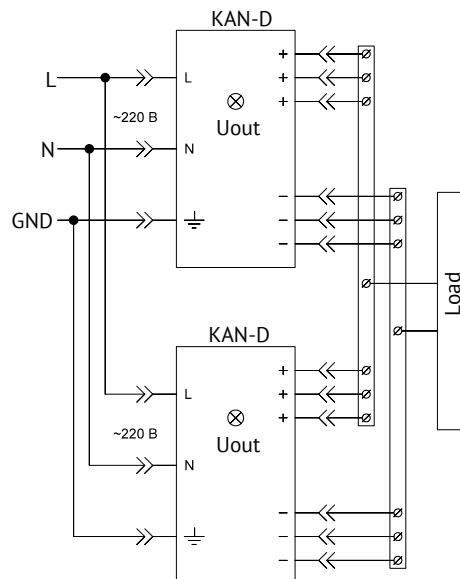
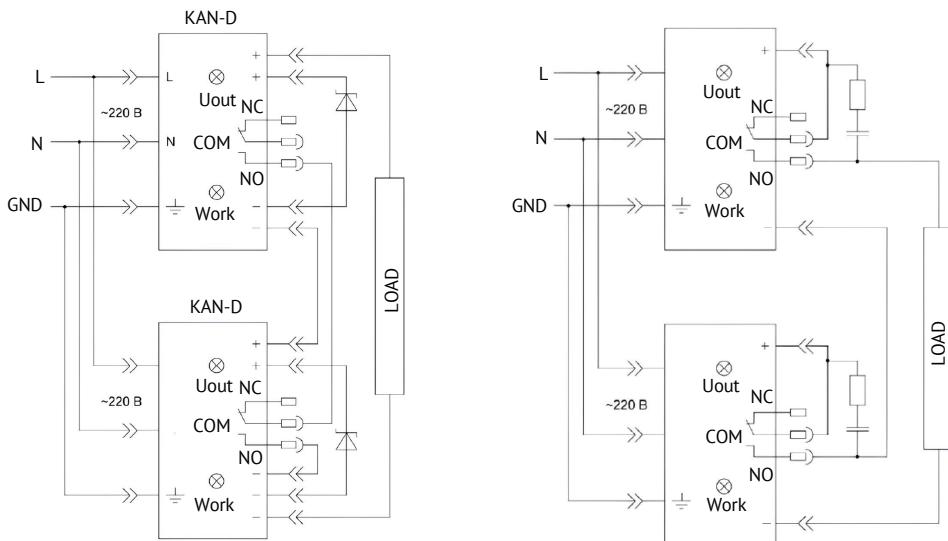
Type of protection	Value
circuit protection**	automatic restart after 5 sec. after the short-circuit has been removed
Overcurrent protection Pmax...1.2 Pnom	automatic restart after 5 sec after overload removal
Output voltage overload protection**	<125% Uout nom
Overheating protection	T ambient > 70 °C

Basic specifications

Parameter	Value	
Type of connection	plug-in screw terminals	
Derating	-2% / °C after +60°C	
Degree of protection	IP20	
EMC requirements	EN55022 (CISPR22), Class B	
Ambient temperature, operation , °C	N	-25...+70°C
	P	-50...+70°C
Ambient temperature, storage, °C	-50...+70°C	
Permissible humidity(operation)	85 % at t ° ambient +40 °C (95 % at t° ambient +25 °C)	
Isolation voltage, V	in /case	~3000 VAC
	in /out	~3000 VAC
	out /case	~1500 VAC
Isolation resistance @ 500 VDC	≥ 20 MOhm min	
Cooling	convectional	
MTBF	1 400 000 Hrs	
Case material	metal	
Dimensions (WxDxH), mm	42×134×131	
Weight, kg	no more than 0.9	
Mounting position	Vertical, for horizontal DIN-rail	
Mounting instructions	Indentation between modules should be 5 mm horizontally for non-active modules and 15 mm for active modules. Vertically, there should be a minimum of 50 mm.	
Warranty	2 year	

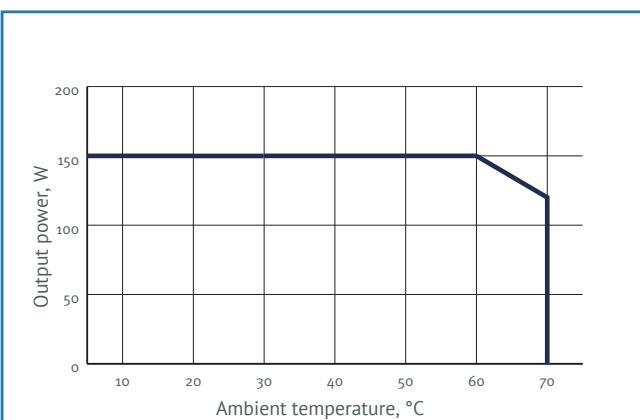
Block diagram



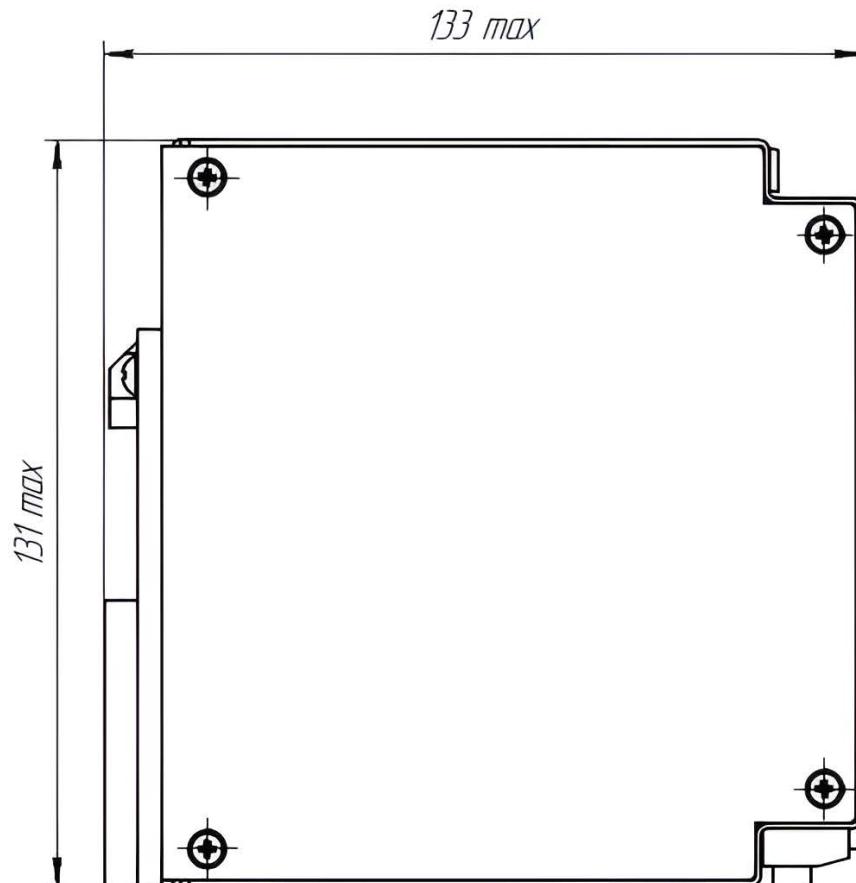
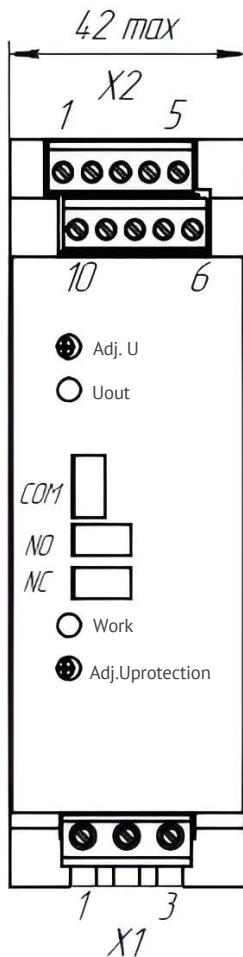
Connection diagram
Typical connection

Parallel connection (redundant mode)

Parallel connection (power ramp-up)

Series connection (no more than 2)


Derating

Temperature dependence



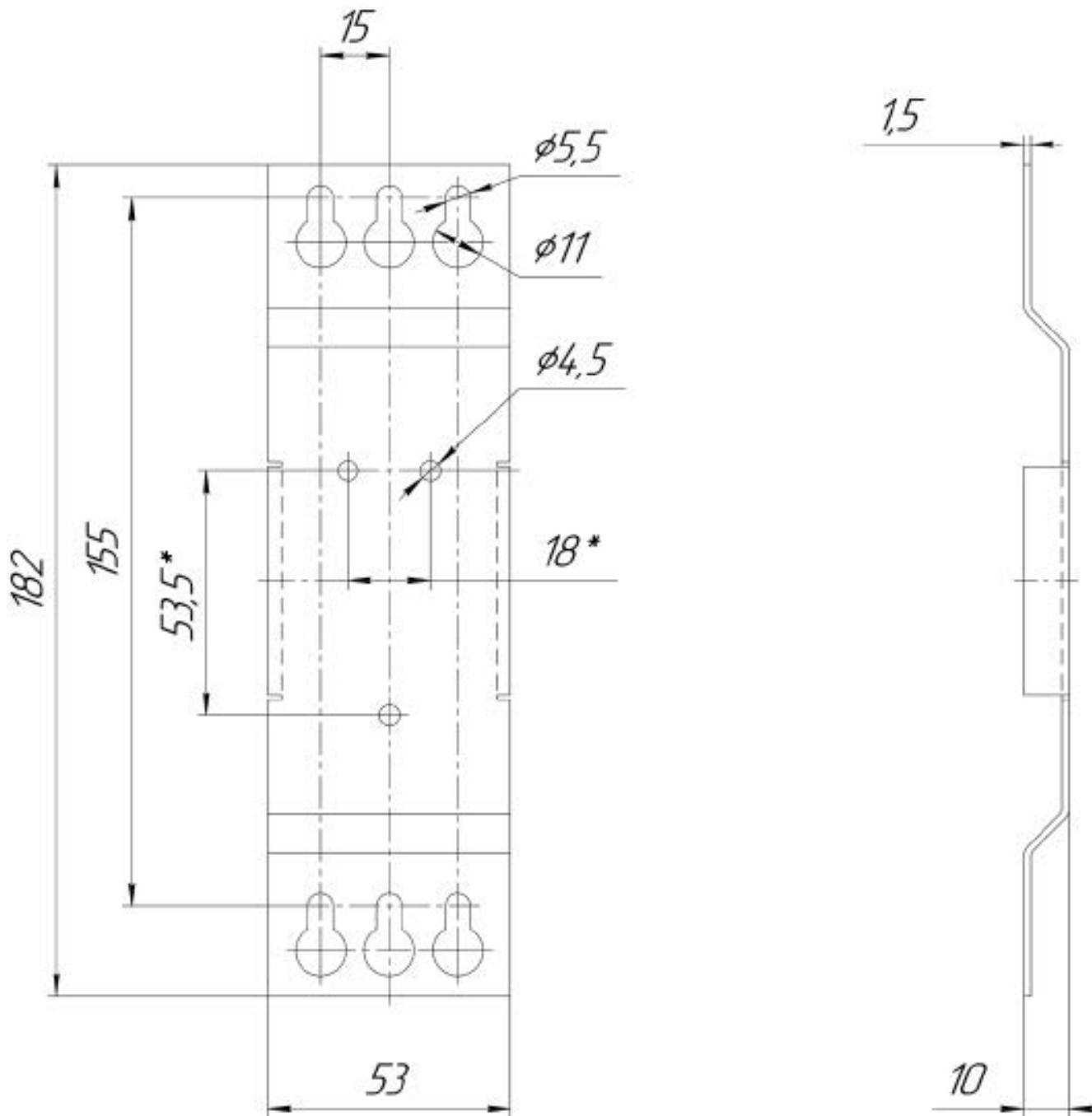
Dimensions drawing



X1.1	X1.2	X1.3
L	N	
X2.1		
+REMOTE OFF	- REMOTE OFF	-OUT
		-OUT
X2.10		
DIAG	Adj.U	+OUT
		+OUT
		+OUT

Bracket dimensional drawing

Bracket ANZHE.745422.002



This datasheet is valid for the : KAN-D150C12P, KAN-D150C24P, KAN-D150C48P

¹ To be ordered separately