



SOLUTIONS FOR POWER SUPPLY CONTINUITY SOLUZIONI PER LA CONTINUITÀ ELETTRICA

Flex - one solution, many applications
Flex - una soluzione, molte applicazioni

Power supplies / Alimentatori

ADELSYSTEM

INTEGRATED ELECTRONIC SOLUTIONS

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Products are manufactured in compliance with - Prodotti conformi 

All data are subjected to change without information. - Tutti i dati possono subire variazioni senza preavviso.

FLEX - 1 Phase (input 115 - 230Vac)



Input (Volt)	115-230Vac	115-230Vac	115-230Vac	115-230Vac	115-230Vac	230-400-400Vac	230-400-400Vac	230-400-400Vac	400-500Vac	
Output (Vdc - A - W)	12Vdc-3A-36W	12Vdc-6A-2W	12Vdc-10A-20W	24Vd -3A-72W	24Vdc-5A-120W	12Vdc-3A-36W	12Vdc-6A-2W	12Vdc-10A-20W	24Vd -3A-72W	
Model	FLEX6024A	FLEX9024A	FLEX17024A	FLEX28024A	FLEX50024A	FLEX9024B	FLEX17024B	FLEX28024B	FLEX50024B	
INPUT DATA	2 x VAC					2 x VAC				3 x VAC
Input rated voltage Tensione d'ingresso nominale	115-230Vac	115-230Vac Input selectable	115-230Vac Input selectable	115-230Vac Input selectable	115-230Vac Input selectable	230-400-500Vac Input selectable	230-400-500Vac Input selectable	230-400-500Vac Input selectable	400-500Vac	
Rated voltage range (Vac) Campo di funzionamento	90 ÷ 264Vac	90 ÷ 264Vac	90 ÷ 264Vac	90 ÷ 264Vac	90 ÷ 264Vac	187-264Vac 330-550Vac	187-264Vac 330-550Vac	187-264Vac 330-550Vac	187-264Vac 330-550Vac	
Inrush Current (Vn and In Load) I _{pt} Corrente d'inserzione	≤ 7A ≤ msec	≤ 11A ≤ 5msec	≤ 11A ≤ 5msec	≤ 16A ≤ 5msec	≤ 16A ≤ 5msec	≤ 17A ≤ 5msec	≤ 17A ≤ 5msec	≤ 17A ≤ 5msec	≤ 17A ≤ 5msec	
Frequency Frequenza d'ingresso	47 ÷ 63Hz ± 6%	47 ÷ 63Hz ± 6%	47 ÷ 63Hz ± 6%	47 ÷ 63Hz ± 6%	47 ÷ 63Hz ± 6%	47 ÷ 63Hz ± 6%	47 ÷ 63Hz ± 6%	47 ÷ 63Hz ± 6%	47 ÷ 63Hz ± 6%	
Input Current (230 - 400 - 480 Vac) Assorbimento	0.2 - 0.1A	1 - 0.6A	2.6 - 1.3A	3.3 - 2.2A	4.2 - 2.9A	1 - 0.7 - 0.6A	1.3 - 0.7 - 0.6A	2.2 - 1.4 - 1A	0.95 - 0.85A	
Internal fuse (not replaceable) Fusibile interno (non sostituibile)	Yes / Si	4A	4A	6.3A	6.3A	4A	4A	6.3A	6.3A	
External fuse (recommended) Fusibile esterno (raccomandato)	4A	4A	4A	16A	16A	4A	10A	10A	16A	
OUTPUT DATA										
Output voltage factory setting ± 3% (Vn) Tensione di uscita	24Vdc	24Vdc	24Vdc	24Vdc	24Vdc	24Vdc	24Vdc	24Vdc	24Vdc	24Vdc
Adjustment range (Vadj) Campo di regolazione	22 - 27Vdc	22 - 27Vdc	22 - 27Vdc	22 - 27Vdc	22 - 27Vdc	22 - 27Vdc	22 - 27Vdc	22 - 27Vdc	22 - 27Vdc	22 - 27Vdc
Minimum load Carico minimo	No	No	No	No	No	No	No	No	No	No
Start up with capacitive load Start up con carichi capacitivi	≤ 50.000µF	≤ 50.000µF	≤ 50.000µF	≤ 50.000µF	≤ 50.000µF	≤ 50.000µF	≤ 50.000µF	≤ 50.000µF	≤ 50.000µF	≤ 50.000µF
Turn-On delay after applying mains voltage Accensione con tensione da rete	2sec max	1sec max	1sec max	1sec max	1sec max	1sec max	1sec max	1sec max	1sec max	1sec max
Continuous Current at 24V < 40°C (In) Corrente Continua	2A(115)-2.5A(230)	4A	7.5A	14.5A	25A	4A	7.5A	14.5A	25A	
Continuous Current at 24V < 50°C (In) Corrente Continua	1.5A(115)-2A(230)	3.5A	6A	12A	22A	3.5A	6A	12A	22A	
Continuous Current at 24V < 60°C (In) Corrente Continua	-	3A	5A	10A	20A	3A	5A	10A	20A	
Max current Massima corrente	4A	5A	9A	16A	35A	5A	9A	16A	35A	
Holdup Time (min Vac) 24Vdc Tempo di arresto	Typ. 20 msec	Typ. 40 msec	Typ. 40 msec	Typ. 40 msec	Typ. 40 msec	Typ. 40 msec	Typ. 40 msec	Typ. 40 msec	Typ. 40 msec	
Residual Ripple Ripple Residuo	≤ 80 mV _{pp}	≤ 80 mV _{pp}	≤ 80 mV _{pp}	≤ 80 mV _{pp}	≤ 80 mV _{pp}	≤ 80 mV _{pp}	≤ 80 mV _{pp}	≤ 80 mV _{pp}	≤ 80 mV _{pp}	
Efficiency (50% of In) Rendimento tipico	≥ 88%	≥ 91%	≥ 91%	≥ 91%	≥ 92%	≥ 91%	≥ 91%	≥ 91%	≥ 92%	
Over temperature protection Protezione in temperatura	Shut-down output and automatic restart / Spegnimento dell'uscita e start automatico					Shut-down output - automatic restart/Spegnimento dell'uscita e start automatico				
Short-circuit protection Protezione contro il corto circuito	Fold Back	1° Hiccup Mode; 2° Fold Back; 3° Restart After Main								
Dissipation power load max (W) Potenza dissipata	6	11	17	28	54	11	17	28	54	
Over load protection Protezione al sovraccarico	Yes / Si	Yes / Si	Yes / Si	Yes / Si	Yes / Si	Yes / Si	Yes / Si	Yes / Si	Yes / Si	
Over voltage output protection (internal Failure) Protez. sovratensione in uscita (Errore interno)	Yes (Typ.35Vdc)	Yes (Typ.35Vdc)	Yes (Typ.35Vdc)	Yes (Typ.35Vdc)	Yes (Typ.35Vdc)	Yes (Typ.35Vdc)	Yes (Typ.35Vdc)	Yes (Typ.35Vdc)	Yes (Typ.35Vdc)	
Parallel connection Collegamento in parallelo	Yes / Si	Yes / Si	Yes / Si	Yes / Si	Yes / Si	Yes / Si	Yes / Si	Yes / Si	Yes / Si	
Relay power good Contatto in scambio per tensione non corretta	-	-	-	Yes / Si	Yes / Si	-	-	Yes / Si	Yes / Si	
CLIMATIC DATA										
Ambient temperature operation Temperatura ambiente di lavoro	-25 ÷ +70°C	-25 ÷ +70°C	-25 ÷ +70°C	-25 ÷ +70°C	-25 ÷ +70°C	-25 ÷ +70°C	-25 ÷ +70°C	-25 ÷ +70°C	-25 ÷ +70°C	-25 ÷ +70°C
De rating T ^a > (In)	> 50° 2.5%°C	> 60° 2.5%°C	> 60° 2.5%°C	> 60° 2.5%°C	> 60° 2.5%°C	> 60° 2.5%°C	> 60° 2.5%°C	> 60° 2.5%°C	> 60° 2.5%°C	> 60° 2.5%°C
Ambient temperature storage Temperatura massima magazzino	-40 ÷ +85°C	-40 ÷ +85°C	-40 ÷ +85°C	-40 ÷ +85°C	-40 ÷ +85°C	-40 ÷ +85°C	-40 ÷ +85°C	-40 ÷ +85°C	-40 ÷ +85°C	-40 ÷ +85°C
Humidity at 25°C Umidità	95% to 25°C	95% to 25°C	95% to 25°C	95% to 25°C	95% to 25°C	95% to 25°C	95% to 25°C	95% to 25°C	95% to 25°C	95% to 25°C
GENERAL DATA										
Isolation voltage (IN/OUT) Tensione di isolamento (IN/OUT)	3000Vac	3000Vac	3000Vac	3000Vac	3000Vac	3000Vac	3000Vac	3000Vac	3000Vac	3000Vac
Isolation voltage (IN/PE) Tensione di isolamento (IN/TERRA)	1605Vac	1605Vac	1605Vac	1605Vac	1605Vac	1605Vac	1605Vac	1605Vac	1605Vac	1605Vac
Isolation voltage (OUT/PE) Tensione di isolamento (OUT/TERRA)	500Vac	500Vac	500Vac	500Vac	500Vac	500Vac	500Vac	500Vac	500Vac	500Vac
Protection Class (EN/IEC 60529) Classe di protezione	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20
Reliability (MTBF IEC 61709) Affidabilità	> 500.000h	> 500.000h	> 500.000h	> 500.000h	> 500.000h	> 500.000h	> 500.000h	> 500.000h	> 500.000h	> 500.000h
Pollution Degree Environment Grado di Inquinamento Ambientale	2	2	2	2	2	2	2	2	2	2
Connecion Terminal Blocks Screw Type Dimensione moersetti	2.5mm	2.5mm	2.5mm	2.5mm	4mm	2.5mm	2.5mm	2.5mm	4mm	
Protection class (with PE connected) Classe di Protezione (con TERRA collegata)	I	I	I	I	I	I	I	I	I	
Dimensions (w-h-d) mm Dimensioni (l-h-p) mm	50x120x50	55x110x105	55x110x105	65x115x135	100x115x135	55x110x105	55x110x105	65x115x135	100x115x135	
Weight Peso	0.30kg approx	0.50kg approx	0.60kg approx	0.65kg approx	0.75kg approx	0.50kg approx	0.60kg approx	0.65kg approx	0.75kg approx	
Safety Standard Approval Conformità e Approvazioni	CE, UL	CE, UL	CE, UL	CE, UL	CE, UL	CE, UL	CE, UL	CE, UL	CE, UL	

FLEX power supply - 1 Phase (input 115 - 230Vac)

FLEX power supply - 2 and 3 Phase (input 230 - 400 - 500 Vac)

Connection diagram
Schema di connessione

* Free switch contact. ** RJ 45 connection.

ALL PRODUCTS
Protection degree: IP20
Protection class: I, with PE connected