S.series
BACK-UP SYSTEM

CI converter industry S

APPLICATIONS

The emergency systems of the S series are suitable for civil and industrial use where it is necessary to supply 230V single-phase equipments and the temporary blackout can cause the interruption of the installed electric devices.

FUNCTIONING

The S series systems recharge batteries when the power is on and supply power to the outlet.
When the power is off, the S series systems convert the power of the batteries into 230V single-phase and supply the outlet. On demand, the S series systems can work in emergency (lack of output when the power is on).

	S 500	S 1000	S 2000	S 3000	S 5000
Input voltage	Single-phase 230Vac (+15 / -20) %				
Input frequency	50 Hz +/- 5%				
Output voltage	Single-phase 230Vac (+/- 10%)				
Network output frequency	Synchronized with the network frequency				
Battery output frequency	50 Hz +/- 0.005%				
Battery voltage	48 Vcc				
Battery functioning limits	40 Vcc				
Battery recharging time	10/12 hours with 60 Ah batteries				
Wave form	Pseudo sinusoidal				
THD	<3% with linear charge				
Overload	110% for 60 sec. -130% for 10 sec. - short circuit 1 sec.				
Efficiency at full charge	93%				
Start up time	0.3 seconds				
Network/batteries commutation	Automatic				
Mechanical protection level	IP 21				
Noisiness (db at 1 metre)	< 40				
Functioning temperature	From -2°C to + 40°C				
Humidity	<90% non condensed				
Regulations	EN 50091-1 and Directive 73/23/EEC - EN 50091-2 and Directive 89/336/EEC				
Electronic protections	Overload - short circuit - battery minimum voltage				
Electric protections	Input fuse - output fuse - battery fuse				
Rated power	500VA	1000VA	2000VA	3000VA	5000VA
Max suppliable current	2.2A	4A	8.7A	13A	22A
Starting max current	10A	15A	20A	30A	50A
Single-phase electric engine max current	1.9A	3.8A	7.6A	11.5A	19.2A
Incandescent lamp max power	500W	1000W	2000W	3000W	5000W
N. of 18/20 Kw neon tubes	15	25	50	75	125
N. of 36/40 Kw neon tubes	6	12	24	36	60
N. of 58/65 Kw neon tubes	4	8	16	24	40
Electronic lamps	400W	800W	1600W	2400W	4000W

	S 500	S 1000	S 2000	S 3000	S 5000
Number of batteries	4 Internal	4	4	4	4
	Autonomy*	Autonomy*	Autonomy*	Autonomy*	Autonomy*
18 Ah battery	75 minutes	-	-	-	-
45 Ah battery	-	81 minutes	40 minutes	27 minutes	16 minutes
50 Ah battery	-	90 minutes	45 minutes	30 minutes	19 minutes
60 Ah battery	-	108 minutes	54 minutes	36 minutes	21 minutes
70 Ah battery	-	126 minutes	63 minutes	42 minutes	25 minutes
80 Ah battery	-	144 minutes	72 minutes	48 minutes	28 minutes
92 Ah battery	-	165 minutes	83 minutes	55 minutes	32 minutes
100 Ah battery	-	180 minutes	90 minutes	60 minutes	38 minutes
200 Ah battery	-	360 minutes	180minutes	120minutes	70 minutes

* The above data have been supplied by the main battery manufacturers. The values indicated refer to a continuous functioning at the maximum power.
The highlighted batteries are recommended to have an autonomy that ensures a suitable safety.

S 500

S 1000
S 2000
S 3000
S 5000

Size and weight

Models	Width W	Height H	Depth D	Weight
S 500	370 mm	420 mm	200 mm	38 Kg
S 1000	285 mm	520 mm	210 mm	26 Kg
S 2000	285 mm	520 mm	210 mm	38 Kg
S 3000	285 mm	520 mm	210 mm	46 Kg
S 5000	370 mm	520 mm	240 mm	62 Kg
45 Ah traction battery	207 mm	190 mm	175 mm	12.4 Kg
50 Ah hermetic battery	225 mm	190 mm	175 mm	13.5 Kg
60 Ah hermetic battery	260 mm	190 mm	175 mm	15.2 Kg
60 Ah traction battery	242 mm	190 mm	175 mm	15.2 Kg
70 Ah hermetic battery	295 mm	190 mm	175 mm	17.8 Kg
80 Ah traction battery	278 mm	190 mm	175 mm	17.9 Kg
92 Ah hermetic battery	374 mm	190 mm	175 mm	24.4 Kg
100 Ah traction battery	327 mm	205 mm	175 mm	24 Kg
200 Ah traction battery	510 mm	215mm	223 mm	48.6 Kg
Battery box	400 mm	235 mm	270 mm	5 Kg
Battery box cover	390 mm	230 mm	260 mm	1 Kg

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