

DC UPS

ADELSYSTEM

CBI - All in ONE	12Vdc				24Vdc				48Vdc		
Model	CBI123A	CBI126A	CBI1210A	CBI1235A	CBI243A	CBI245A	CBI2410A	CBI2420A	CBI485A	CBI4810A	
INPUT DATA											
Nominal Input Voltage / Tensione d'ingresso nominale	115 – 230 – 277Vac	115 – 230 – 277Vac	115 – 230 – 277Vac	115 / 230 – 277Vac	115 – 230 – 277Vac	115 – 230 – 277Vac	115 / 230 – 277Vac	115 / 230 – 277Vac	115 / 230 – 277Vac	115 / 230 – 277Vac	
Input Voltage Range / Campo di funzionamento	90 – 305Vac	90 – 305Vac	90 – 305Vac	90 – 135Vac 180 – 305Vac	90 – 305Vac	90 – 305Vac	90 – 135Vac 180 – 305Vac	90 – 135Vac 180 – 305Vac	90 – 135Vac 180 – 305Vac	90 – 135Vac 180 – 305Vac	
Inrush Current (Vn and In Load) <i>I</i> _i / Corrente di Inserzione	≤ 11 A ≤ 5msec	≤ 11 A ≤ 5msec	≤ 11 A ≤ 5msec	≤ 35 A ≤ 5msec	≤ 11 A ≤ 5msec	≤ 11 A ≤ 5msec	≤ 16 A ≤ 5msec	≤ 35 A ≤ 5msec	≤ 16 A ≤ 5msec	≤ 35 A ≤ 5msec	
Frequency / Frequenza di Ingresso	47 – 63 Hz ±6%	47 – 63 Hz ±6%	47 – 63 Hz ±6%	47 – 63 Hz ±6%	47 – 63 Hz ±6%	47 – 63 Hz ±6%	47 – 63 Hz ±6%	47 – 63 Hz ±6%	47 – 63 Hz ±6%	47 – 63 Hz ±6%	
Input Current (115 – 230Vac) / Assorbimento	2.8 – 1.3A	2.8 – 1.3A	2.8 – 1.3A	8.0 – 4.2A	2.8 – 1.3A	2.8 – 1.3A	3.3 – 2.2A	8.0 – 4.2A	3.3 – 2.2A	8.0 – 4.2A	
Internal Fuse / Fusibile Interno (non sostituibile)	4A	4A	4A	10A	4A	4A	6.3A	10A	6.3A	10A	
External Fuse (recommended) / Fusibile Esterno raccomandato	10A	10A	10A	16A	10A	10A	16A	16A	16A	16A	
OUTPUT DATA											
Output Vdc / <i>I</i> _o / Tensione di uscita Vdc / <i>I</i> _o	12Vdc – 3A	12Vdc – 6A	12Vdc – 10A	12Vdc – 35A	24Vdc – 3A	24Vdc – 5A	24Vdc – 10A	24Vdc – 20A	48Vdc – 5A	48Vdc – 10A	
Output Current (In)	3A	6A	10A	35A	3A	5A	10A	20A	5A	10A	
Dissipation Power load max (W)	9	17	17	28	13	17	28	54	28	54	
Minimum load / Carico minimo	No	No	No	No	No	No	No	No	No	No	
Efficiency (50% of In) / Rendimento tipico	≥ 90%	≥ 90%	≥ 90%	> 91%	≥ 90%	≥ 90%	≥ 83%	> 91%	≥ 83%	> 91%	
Short-circuit protection / Protezione contro il corto circuito	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Over Load protection / Protezione sovraccarico	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Over Voltage Output protection / Protezione sovratensione in uscita	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. 90Vdc)	Yes (Typ. 90Vdc)	
Overheating Thermal Protection / Protezione sovratemperatura	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Reverse battery protection / Protezione inversione batteria	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Sulfated battery check / Controllo batteria solfatata	Yes by Jumper	Yes by Jumper	Yes by Jumper	Yes by Jumper	Yes by Jumper	Yes by Jumper	Yes by Jumper	Yes by Jumper	Yes by Jumper	Yes by Jumper	
Detection of element in short circuit / Rilevazione elemento in corto circuito	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
LOAD OUTPUT / USCITA CARICO											
Output voltage (at at IN) Vdc / Tensione di uscita (a IN) Vdc	10 – 14.4Vdc	10 – 14.4Vdc	10 – 14.4Vdc	10 – 14.4Vdc	22 – 28.8Vdc	22 – 28.8Vdc	22 – 28.8Vdc	22 – 28.8Vdc	44 – 57.6Vdc	44 – 57.6Vdc	
Nominal Current IN = Iload	1.1 x In A ± 5%	1.1 x In A ± 5%	1.1 x In A ± 5%	1.1 x In A ± 5%	1.1 x In A ± 5%	1.1 x In A ± 5%	1.1 x In A ± 5%	1.1 x In A ± 5%	1.1 x In A ± 5%	1.1 x In A ± 5%	
Continuous current (without battery) Iload = In	3A	6A	10A	35A	10A	5A	10A	20A	5A	10A	
Max continuous current (with battery) Iload = In + I _{batt}	6A	12A	20A	70A	6A	10A	20A	40A	10A	20A	
Max current Output Load: (Main Input) Iload (4sec.)	9A max	18A max	30A max	105A max	9A max	15A max	30A max	60A max	15A max	30A max	
Max current Output Load: (Back Up) Iload (4sec.)	6A max	12A max	20A max	70A max	6A max	10A max	20A max	40A max	10A max	20A max	
Push Button or Remote Input Control (AMP type connector)	Start from Battery without main	Start from Battery without main	Start from Battery without main	Start from Battery without main	Start from Battery without main	Start from Battery without main	Start from Battery without main (1)	Start from Battery without main	Start from Battery without main (1)	Start from Battery without main	
Time Buffering; min (switch output off without main input)	Can be aduste by PC SW mode	Can be aduste by PC SW mode	Can be aduste by PC SW mode	0.5;1;3;5;10;15; 20; 30; 45;60;∞	Can be aduste by PC SW mode	Can be aduste by PC SW mode	5 min standard - Require: SW S31	0.5;1;3;5;10;15; 20; 30; 45;60;∞	5 min standard - Require: SW S31	0.5;1;3;5;10;15; 20; 30; 45;60;∞	
Protections against total discharge	9 – 10 Vdc batt	9 – 10 Vdc batt	9 – 10 Vdc batt	9 – 10 Vdc batt	19 – 20 Vdc batt	19 – 20 Vdc batt	19 – 20 Vdc batt	38 – 40 Vdc batt	38 – 40 Vdc batt	38 – 40 Vdc batt	
Threshold alarm Battery almost flat	10 – 11 Vdc batt	10 – 11 Vdc batt	10 – 11 Vdc batt	10 – 11 Vdc batt	20 – 21 Vdc batt	20 – 21 Vdc batt	20 – 21 Vdc batt	40 – 42 Vdc batt	40 – 42 Vdc batt	40 – 42 Vdc batt	
BATTERY CHARGER OUTPUT / USCITA CARICA BATTERIA											
Boost – Bulk charge (Typ. at <i>I</i> _o) / Carica Veloce	14.4Vdc	14.4Vdc	14.4Vdc	14.4Vdc	28.8Vdc	28.8Vdc	28.8Vdc	28.8Vdc	57.6	57.6	
Max.Time Boost–Bulk charge (Typ. at <i>I</i> _o) / Tempo massimo Carica Veloce	15h	15h	15h	15h	15h	15h	15h	15h	15h	15h	
Min.Time Boost–Bulk charge (Typ. at <i>I</i> _o) / Tempo minimo Carica Veloce	1min.	1min.	1min.	1min.	1min.	1min.	1min.	1min.	1min.	1min.	
Trickle-Float charge (Typ. at <i>I</i> _o) / Carica di mantenimento	13.75Vdc	13.75Vdc	13.75Vdc	13.75Vdc	27.5Vdc	27.5Vdc	27.5Vdc	27.5Vdc	55Vdc	55Vdc	
Recovery Charge / Carica di recupero	2 – 9Vdc	2 – 9Vdc	2 – 9Vdc	2 – 9Vdc	2 – 16Vdc	2 – 16Vdc	2 – 16Vdc	2 – 16Vdc	2 – 24Vdc	2 – 24Vdc	
Turn-On delay after applying mains voltage / Accensione con tensione di rete	1sec. Max	1sec. Max	1sec. Max	1sec. Max	1sec. Max	1sec. Max	1.5sec. Max	1sec. Max	1.5sec. Max	1sec. Max	
End of charging current (Bulk charge)	0.3A	0.3A	0.3A	0.3A	0.3A	0.3A	0.3A	0.3A	0.3A	0.3A	
Start up with strong load (capacitive load) / Start up con carichi capacitivi	Yes, Unlimited	Yes, Unlimited	Yes, Unlimited	Yes, Unlimited	Yes, Unlimited	Yes, Unlimited	Yes, Unlimited	Yes, Unlimited	Yes, Unlimited	Yes, Unlimited	
Residual Ripple / Ripple Residuo	≤ 60 mVpp	≤ 60 mVpp	≤ 60 mVpp	≤ 60 mVpp	≤ 60 mVpp	≤ 60 mVpp	≤ 60 mVpp	≤ 60 mVpp	≤ 60 mVpp	≤ 60 mVpp	
Charging max <i>I</i> _{batt} / Corrente max. di Carica	3A ± 5%	6A ± 5%	10A ± 5%	35A ± 5%	3A ± 5%	5A ± 5%	10A ± 5%	10A ± 5%	5A ± 5%	10A ± 5%	
Charging current Limiting <i>I</i> _o (I _{lim}) / Limitazione Corrente di Carica	20 + 100 % / <i>I</i> _{batt}	20 + 100 % / <i>I</i> _{batt}	20 + 100 % / <i>I</i> _{batt}	20 + 100 % / <i>I</i> _{batt}	20 + 100 % / <i>I</i> _{batt}	20 + 100 % / <i>I</i> _{batt}	20 + 100 % / <i>I</i> _{batt}	20 + 100 % / <i>I</i> _{batt}	20 + 100 % / <i>I</i> _{batt}	20 + 100 % / <i>I</i> _{batt}	
Jumper Config.Type Battery (NiCd optional)/Configurazione Tipo Batteria	2.23 V/cell Open Lead, 2.25 V/cell Sealed Lead, 2.27 V/cell Sealed Lead, 2.3 V/cell gel; NiCd 1.5V/cell (10 elem.) trickle (Imax 10%)				2.23 V/cell Open Lead, 2.25 V/cell Sealed Lead, 2.27 V/cell Sealed Lead, 2.3 V/cell gel; NiCd 1.5V/cell (20 elem.) trickle (Imax 10%)				2.23 V/cell Open Lead, 2.25 V/cell Sealed Lead, 2.27 V/cell Sealed Lead, 2.3 V/cell gel; NiCd 1.5V/cell (40 elem.) trickle (Imax 10%)		
Quiescent Current / Consumo da batteria max.	≤5mA	≤5mA	≤5mA	≤5mA	≤5mA	≤5mA	≤5mA	≤5mA	≤5mA	≤5mA	
Remote Input Control (AMP Type connector)	Boost / Trickle	Boost / Trickle	Boost / Trickle	Boost / Trickle	Boost / Trickle	Boost / Trickle	Boost / Trickle	Boost / Trickle	Boost / Trickle	Boost / Trickle	
Characteristic Curve / Caratteristiche di Carica	IUoUo, Automatic, 3 stage / IUoUo, Automatico a 3 Stadi										
SIGNAL OUTPUT (RELAY) / SEGNALAZIONE RELÈ USCITA											
Main or Backup Power	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Low Battery	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Fault Battery	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
AUXILIARY OUTPUT (RJ 45 CONNECTION) FOR:											
CAN Bus	No	No	No	Optional	No	No	No	Optional	No	Optional	
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) / De rating T _a > (In)	> 50° -2.5%(In) / °C	> 50° -2.5%(In) / °C	> 50° -2.5%(In) / °C	> 50° -2.5%(In) / °C	> 50° -2.5%(In) / °C	> 50° -2.5%(In) / °C	> 50° -2.5%(In) / °C	> 50° -2.5%(In) / °C	> 50° -2.5%(In) / °C	> 50° -2.5%(In) / °C	
Ambient Temperature Storage / Temperatura max. 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	
Cooling / Raffreddamento	Auto Convection	Auto Convection	Auto Convection	Auto Convection	Auto Convection	Auto Convection	Auto Convection	Auto Convection	Auto Convection	Auto Convection	
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) / Protezione Classe	IP 20	IP 20	IP 20	IP 20	IP 20	IP 20	IP 20	IP 20	IP 20	IP 20	
Reliability (MTBF IEC 61709) / Affidabilità	> 300 000 h	> 300 000 h	> 300 000 h	> 300 000 h	> 300 000 h	> 300 000 h	> 300 000 h	> 300 000 h	> 300 000 h	> 300 000 h	
Pollution Degree Environment / Grado d'inquinamento ambientale	2	2	2	2	2	2	2	2	2	2	
Connection Terminal Blocks Screw Type / Dimensione morsetti	2,5mm (24-14 AWG)	2,5mm (24-14 AWG)	2,5mm (24-14 AWG)	4mm (30-10 AWG)	2,5mm (24-14 AWG)	2,5mm (24-14 AWG)	2,5mm (24-14 AWG)	4mm (30-10 AWG)	2,5mm (24-14 AWG)	4mm (30-10 AWG)	
Protection class (with PE connected) / Grado di protezione (con cavo di terra collegato)	I	I	I	I	I	I	I	I	I	I	
Dimension (w-h-d)/Dimensioni (l-h-p) mm	65x115x135 mm	65x115x135 mm	65x115x135 mm	150x115x135 mm	65x115x135 mm	65x115x135 mm	100x115x135 mm	150x115x135 mm	100x115x135 mm	150x115x135 mm	
Weight / Peso	0.60 kg approx	0.60 kg approx	0.60 kg approx	1.55 kg approx	0.60 kg approx	0.60 kg approx	0.85 kg approx	1.55 kg approx	0.85 kg approx	1.55 kg approx	
Safety Standard Approval / Conformità ed Approvazioni	CE	CE	CE	CE	CE	CE	CE	CE	CE	CE	

(1) - Options to be defined by Order, Push Button not available

Optional for auxiliary Output (RJ45 connection): Temp Charging probe: Temperature sensor for battery 2m length. Voltage drop compensation: Cable for battery connection 2m length. Remote monitoring Display. Can Bus Cable.