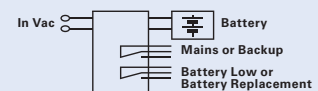
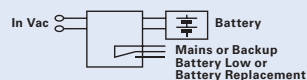




	Input (Volt) Vac	110 - 230	110 - 230	110 - 230	110 - 230	110 - 230	110 - 230
	Output (Vdc - A - W)	12 - 3 - 36	12 - 3 - 36	12 - 6 - 72	12 - 10 - 120	12 - 35 - 420	24 - 3 - 72
	Model	CB123AL	CB123A	CB126A	CB1210A	CB1235A	CB243ALC
INPUT DATA 2xVac	Nominal Input Voltage Vac	115 - 230	115 - 230	115 - 230	115 - 230	115 - 230	115 - 230
	Input Voltage Range Vac	90 - 264	90 - 264	90 - 264	90 - 264	90 - 264	90 - 264
	Inrush Current (Vn and In Load) I2t (msec)	≤ 7 A ≤ 5	≤ 11 A ≤	≤ 11 A ≤	≤ 16 A ≤	≤ 35 A ≤	≤ 7 A ≤
	Frequency	47 - 6 Hz ± 6%	47 - 6 Hz ± 6%	47 - 6 Hz ± 6%	47 - 6 Hz ± 6%	47 - 6 Hz ± 6%	47 - 6 Hz ± 6%
	Input Current (120 - 230 - Vac)	0,5 - 0.3 A	0,5 - 0.3 A	1 - 0.7 A	2.4 - 1.2 A	8 - 4.2 A	1 - 0.7 A
	Internal Fuse	4 A	4 A	4 A	4 A	10 A	4 A
	External Fuse (recommended)	4 A	10 A	10 A	16 A	16 A	10 A
OUTPUTS DATA	Output Vdc / IN	12 Vdc 3 A	12 Vdc 3 A	12 Vdc 6 A	12 Vdc 10 A	12 Vdc 35 A	24 Vdc 3 A
	Minimum load	No	No	No	No	No	No
	Efficiency (50% of IN)	> 81 %	> 81%	> 82%	> 85%	> 91%	> 81%
	Short-circuit protection	✔	✔	✔	✔	✔	✔
	Over Load protection	✔	✔	✔	✔	✔	✔
	Over Voltage Out protection	✔	✔	✔	✔	✔	✔
	Reverse battery protection	✔	✔	✔	✔	✔	✔
BATTERY CHARGER OUTPUT	Boost - Bulk charge (Typ. at IN)	14.4 Vdc	14.4 Vdc	14.4 Vdc	14.4 Vdc	14.4 Vdc	28.8 Vdc
	Max. Time Boost-Bulk charge (Typ. at IN)	15 h	15 h	15 h	15 h	15 h	15 h
	Min. Time Boost-Bulk charge (Typ. at IN)	70 min.	70 min.	70 min.	1 min.	1 min.	1 min.
	Trickle-Float charge (Typ. at IN)	13.75 Vdc	13.75 Vdc	13.75 Vdc	13.75 Vdc	13.75 Vdc	27.5 Vdc
	Recovery Charge	2 - 7 Vdc	2 - 7 Vdc	2 - 7 Vdc	2 - 9 Vdc	2 - 9 Vdc	2 - 16 Vdc
	Charging max I _{batt}	3 A ± 5%	3 A ± 5%	6 A ± 5%	10 A ± 5%	35 A ± 5%	3 A ± 5%
	Charging current Limiting IN (I _{adj})	✔	✔	✔	✔	✔	✔
	Jumper Config. Type Battery					2.23 V/cell Open Load, 2.25 V	
	Quiescent Current	≤ 5 mA	≤ 5 mA	≤ 5 mA	≤ 5 mA	≤ 5 mA	≤ 5 mA
	Characteristic Curve						
SIGNAL OUTPUT (RELAY)	Main or Backup Power	✔	✔	✔	✔	✔	✔
	Low Battery and Fault Battery	✔	✔	✔	✔	✔	✔
	Main or Backup - Fault Battery	✔	✔	✔	✔	✔	✔
AUXILIARY OUTPUT FOR:	Temp. Charging probe	✔	✔	✔	✔	✔	✔
	Voltage drop compensation	✔	✔	✔	✔	✔	✔
	Remote monitoring display	✔	✔	✔	✔	✔	✔
CLIMATIC DATA	Ambient Temperature (operation)	-25 / +70 °C	-25 / +70 °C	-25 / +70 °C	-25 / +70 °C	-25 / +70 °C	-25 / +70 °C
	De rating T° > . (In)	> 50° 2.5%	> 50° 2.5%	> 50° 2.5%	> 40° 2.5%	> 50° 2.5%	> 50° 2.5%
	Automatic De rating	✔	✔	✔	✔ > 40 °C	✔	✔
	Ambient Temperature Storage	-40 / +85 °C	-40 / +85 °C	-40 / +85 °C	-40 / +85 °C	-40 / +85 °C	-40 / +85 °C
	Humidity at 25 °C, no condensation	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	Auto Convection	Auto Convection	Auto Convection	Auto Convection	Auto Convection	Auto Convection
GENERAL DATA	Insulation Voltage (IN/OUT)	3000 Vac	3000 Vac	3000 Vac	3000 Vac	3000 Vac	3000 Vac
	Insulation Voltage (IN/PE)	1605 Vac	1605 Vac	1605 Vac	1605 Vac	1605 Vac	1605 Vac
	Insulation Voltage (OUT/PE)	500 Vac	500 Vac	500 Vac	500 Vac	500 Vac	500 Vac
	Protection Class (EN/IEC 60529)	IP 20	IP 20	IP 20	IP 20	IP 20	IP 20
	Reliability: MTBF IEC 61709	> 300 000h	> 300 000 h	> 300 000 h	> 300 000 h	> 300 000 h	> 300 000 h
	Pollution Degree Environment	2	2	2	2	2	2
	Connection Terminal Blocks Screw Type	2,5 mm	2,5 mm	2,5 mm	2,5 mm	4 mm	2,5 mm
	Protection class (with PE connected)	I	I	I	I	I	I
	Dimension (w-h-d)	45x100x100	45x100x100	45x100x100	65x115x135	150x115x135	45x110x105
	Weight	0.30 kg approx	0.30 kg approx	0.30 kg approx	0.65 kg approx	1.5 kg approx	0.30 kg approx

Connection Diagram



Optional for Auxiliary Output (RJ 45 connection)

Temp. Charging probe: Temperature Sensor for battery 2 m length; Safety Standard Approval: CE.



110 - 230	110 - 230	110 - 230	110 - 230	110 - 230	110 - 230	110 - 230	110 - 230
12 - 35 - 420	24 - 3 - 72	24 - 3 - 72	24 - 5 - 120	24 - 5 - 120	24 - 10 - 240	24 - 20 - 500	36 - 3 - 110
CB1235A	CB243ALC	CB243A	CB245C	CB245A	CB2410AC	CB2420A	CB363A
115 - 230	115 - 230	115 - 230	115 - 230	115 - 230	115 - 230	115 - 230	115 - 230
90 - 264	90 - 264	90 - 264	90 - 264	90 - 264	90 - 264	90 - 264	90 - 264
≤ 35 A ≤	≤ 7 A ≤	≤ 7 A ≤ 5	≤ 16 A ≤ 5	≤ 16 A ≤ 5	≤ 16 A ≤ 5	≤ 35 A ≤ 5	≤ 16 A ≤ 5
47 - 6 Hz ± 6%	47 - 6 Hz ± 6%	47 - 6 Hz ± 6%	47 - 6 Hz ± 6%	47 - 6 Hz ± 6%	47 - 6 Hz ± 6%	47 - 6 Hz ± 6%	47 - 6 Hz ± 6%
8 - 4.2 A	1 - 0.7 A	1 - 0.7 A	2.4 - 1.2 A	2.4 - 1.2 A	3.3 - 2.2 A	8 - 4.2 A	2.4 - 1.2 A
10 A	4 A	4 A	4 A	4 A	6.3 A	10 A	4 A
16 A	10 A	10 A	10 A	16 A	16 A	16 A	10 A
12 Vdc 35 A	24 Vdc 3 A	24 Vdc 3 A	24 Vdc 5 A	24 Vdc 5 A	24 Vdc 10 A	24 Vdc 20 A	36 Vdc 3 A
No	No	No	No	No	No	No	No
> 91%	> 81%	> 81%	> 82%	> 89%	> 88%	> 91%	> 81%
🟢	🟢	🟢	🟢	🟢	🟢	🟢	🟢
🟢	🟢	🟢	🟢	🟢	🟢	🟢	🟢
🟢	🟢	🟢	🟢	🟢	🟢	🟢	🟢
🟢	🟢	🟢	🟢	🟢	🟢	🟢	🟢
14.4 Vdc	28.8 Vdc	28.8 Vdc	28.8 Vdc	28.8 Vdc	28.8 Vdc	28.8 Vdc	43.2 Vdc
15 h	15 h	15 h	15 h	15 h	15 h	15 h	15 h
1 min.	1 min.	1 min.	1 min.	1 min.	1 min.	1 min.	1 min.
13.75 Vdc	27.5 Vdc	27.5 Vdc	27.5 Vdc	27.5 Vdc	27.5 Vdc	27.5 Vdc	41.25 Vdc
2 - 9 Vdc	2 - 16 Vdc	2 - 16 Vdc	2 - 16 Vdc	2 - 18 Vdc	2 - 18 Vdc	2 - 7 Vdc	2 - 29 Vdc
35 A ± 5%	3 A ± 5%	3 A ± 5%	5 A ± 5%	5 A ± 5%	10 A ± 5%	20 A ± 5%	3 A ± 5%
🟢	🟢	🟢	🟢	🟢	🟢	🟢	🟢
2.23 V/cell Open Lead, 2.25 V/cell Sealed Lead, 2.27 V/cell Sealed Lead, 2.3 V/cell gel							
≤ 5 mA	≤ 5 mA	≤ 5 mA	≤ 5 mA	≤ 5 mA	≤ 5 mA	≤ 5 mA	≤ 5 mA
IUoUo, Automatic, 3 stage							
🟢	🟢	🟢	🟢	🟢	🟢	🟢	🟢
🟢	🟢	🟢	🟢	🟢	🟢	🟢	🟢
🟢	🟢	🟢	🟢	🟢	🟢	🟢	🟢
🟢	🟢	🟢	🟢	🟢	🟢	🟢	🟢
🟢	🟢	🟢	🟢	🟢	🟢	🟢	🟢
🟢	🟢	🟢	🟢	🟢	🟢	🟢	🟢
-25 / +70 °C	-25 / +70 °C	-25 / +70 °C	-25 / +70 °C	-25 / +70 °C	-25 / +70 °C	-25 / +70 °C	-25 / +70 °C
> 50° 2.5%	> 50° 2.5%	> 50° 2.5%	> 40° 2.5%	> 50° 2.5%	> 50° 2.5%	> 50° 2.5%	> 40° 2.5%
🟢	🟢	🟢	🟢 > 40 °C	🟢	🟢	🟢	🟢 > 40 °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
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
Auto Convection	Auto Convection	Auto Convection	Auto Convection	Auto Convection	Auto Convection	Auto Convection	Auto Convection
3000 Vac	3000 Vac	3000 Vac	3000 Vac	3000 Vac	3000 Vac	3000 Vac	3000 Vac
1605 Vac	1605 Vac	1605 Vac	1605 Vac	1605 Vac	1605 Vac	1605 Vac	1605 Vac
500 Vac	500 Vac	500 Vac	500 Vac	500 Vac	500 Vac	500 Vac	500 Vac
IP 20	IP 20	IP 20	IP 20	IP 20	IP 20	IP 20	IP 20
> 300 000 h	> 300 000 h	> 300 000 h	> 300 000 h	> 300 000 h	> 300 000 h	> 300 000 h	> 300 000 h
2	2	2	2	2	2	2	2
4 mm	2,5 mm	2,5 mm	2,5 mm	2,5 mm	2,5 mm	4 mm	2,5 mm
l	l	l	l	l	l	l	l
150x115x135	45x110x105	45x110x105	45x115x135	65x115x135	100x115x135	150x115x135	45x110x105
1.5 kg approx	0.30 kg approx	0.30 kg approx	0.3 kg approx	0.65 kg approx	0.85 kg approx	1.55 kg approx	0.35 kg approx

