

	LOVATO					
	BCE 03 12 BCE 06 12 BCE 12 12	BCE 2V5 24 BCE 05 24 BCE 10 24	BCF 0250 12 BCF 0450 12	BCF 0125 24 BCF 0250 24	BCG 06 12 BCG 12 12	BCG 05 24 BCG 10 24
General						
Input voltage	220...240VAC ±10%	220...240VAC ±10%	100...240VAC ±10%	100...240VAC ±10%	110...240VAC ±10%	110...240VAC ±10%
Frequency	50/60Hz ±5%					
Input fuse	BCE 06 12 and BCE 12 12	BCE 05 24 and BCE 10 24	•	•	•	•
Output fuse	•	•	•	•	•	•
Operating temperature	-10...+50 °C	-10...+50 °C	-40...+51 °C	-40...+51 °C	-30...+55 °C	-30...+55 °C
Operating temperature with derating	-40...+70 °C	-40...+70 °C	-	-	-30...+70°C (-1,5% Ic / °C)	-30...+70°C (-1,5% Ic / °C)
Storage temperature	-30...+80 °C	-30...+80 °C	-40...+85 °C	-40...+85 °C	-40...+85 °C	-40...+85 °C
Line regulation	<1%	<1%	±1%	±1%	<1%	<1%
Technology	SCR	SCR	Switching mode	Switching mode	Switching mode	Switching mode
Efficiency	-	-	86% 88%	86% 88%	>90%	>90%
Battery type	Lead	Lead	Lead	Lead	Lead and sealed lead	Lead and sealed lead
Approvals						
GOST	•	•	•	•	pending	pending
CE	•	•	•	•	•	•
UL	-	-	cURus	cURus	cURus pending	cURus pending
Reference standard	EN 60335-2-29 EN 60068-2-6 EN 60068-2-27 EN 60068-2-6 EN 50081-1 EN 50082-2 IEC 60335-2-29 IEC 60068-2-6 IEC 60068-2-27 IEC 60068-2-61 EN 60335-2-29 IEC 60335-2-29	EN 60335-2-29 EN 60068-2-6 EN 60068-2-27 EN 60068-2-6 EN 50081-1 EN 50082-2 IEC 60335-2-29 IEC 60068-2-6 IEC 60068-2-27 IEC 60068-2-61 EN 60335-2-29 IEC 60335-2-29	IEC/EN 60950-1 IEC/EN 6100-6-2 IEC/EN 61000-6-3 CSA C22.2 n° 60950-1	IEC/EN 60950-1 IEC/EN 6100-6-2 IEC/EN 61000-6-3 CSA C22.2 n° 60950-1	IEC/EN 60950-1, IEC/EN 61558-2-16 IEC 61000-3-2, IEC/EN 61000-6-2, IEC/EN 61000-6-3	IEC/EN 60950-1, IEC/EN 61558-2-16 IEC 61000-3-2, IEC/EN 61000-6-2, IEC/EN 61000-6-3
Output						
Output voltage	12 (13,8)VDC 6 elements	24 (27,6)VDC 12 elements	12 (13,6)VDC 6 elements	24 (27,2) VDC 12 elements	12VDC	24VDC
Nominal charging current (Ie)	3-6-12A	2,5-5-10A	2,5A / 4,5A	1,25A / 2,5A	6-12A	5-10A
Charging current regulation	30...100% Ie by potentiometer	30...100% Ie by potentiometer	-	-	20...100% of rated current	20...100% of rated current
Charge mode	DIN 41773					
Output Ripple & Noise	<1%	<1%	<100mVpp	<100mVpp	<1%	<1%
Load regulation	-	-	±1%	±1%	<1%	<1%
Short circuit protection	•	•	•	•	•	•
Reverse polarity protection	•	•	•	•	•	•
Too low battery voltage (<0,5Ue)	•	•	•	•	•	•
Battery not connected	•	•	•	•	•	•
Current limiting	•	•	Hicc-up	Hicc-up	Hicc-up	Hicc-up
Housing						
Mounting	Wall mount (4 screws)	Wall mount (4 screws)	DIN rail	DIN rail	DIN rail	DIN rail
Dimensions (Lx Hx W)	BCE 03 12 134x 100x 100 mm BCE 06 12 192x 130x 140 mm BCE 12 12 178x 239x 140 mm	BCE 2v5 24 134x 100x 100 mm BCE 05 24 192x 130x 140 mm BCE 10 24: 178x 239x 140 mm	96x 90x 56,2 mm	96x 90x 56,2 mm	BCG 06 12: 148 x 145 x 63 mm BCG 12 12: 198 x 145 x 63 mm	BCG 05 24 148 x 145 x 63 mm BCG 10 24 198 x 145 x 63 mm
Protection degree	IP00	IP00	IP20	IP20	IP20	IP20
Terminals	BCE 03 12 / BCE 2v5 24: removable Otherwise:		Screw terminals, not removable		Screw (fix ed)	Screw (fix ed)
Functions						
Boost mode	-	-	-	-	•	•
Leds						
Power on	•	•	•	•	•	•
Charging	• (I>0,2Ic)	• (I>0,2Ic)	-	-	• (I>0,3Ic)	• (I>0,3Ic)
Reverse polarity	-	-	•	•	•	•
Alarm	•	•	•	•	•	•
Failure output						
Output status	BCE 03 12 / BCE 2v5 24: static output Otherwise: changeover relay (5A@250VAC)		relay 3A@250VAC normally closed (in case of alarm or power off the relay is open)		Relay 30V= 5A 30V= 1A Pilot Duty Normally energized during operation. De-energized in alarm and power off. Automatic reset at the end of alarm.	