

Technical characteristics

Type of module		Converter	
		ABL 8DCC05060	ABL 8DCC12020
Certifications		CB scheme IEC/EN 60950-1, UL (pending), cCSAus	
Conformity to standards	Safety	IEC/EN 60950-1, IEC 61204	
	EMC	EN 50081-1, CEI/EN 61000-6-2, EN 61000-6-3	
Input circuit			
Input values	Nominal voltage	V	24...28.8 ---
	Limit voltage	V	22...30 ---
	Protection against reverse polarity		Yes
	Efficiency at nominal load		> 80% > 82%
	Dissipated power at nominal load	W	7 4
Output circuit			
Diagnostics	LEDs on front panel		Voltage > 4 V --- (green) Voltage > 6 V --- (green)
Nominal output values	Output voltage (U _{Out})	V	5 --- Adjustable from 5...6.5 --- 12 --- Adjustable from 7...15 ---
	Current	A	6 2
	Power	W	30 24
Precision	Line and load regulation		1...3%
	Residual ripple - noise	mV	< 100
Protection	Against short-circuits		Permanent, automatic restart
	Against overloads		Permanent, automatic restart
	Against overvoltages	V	Permanent, automatic restart U _{Out} > 7.8 Permanent, automatic restart U _{Out} > 18
	Thermal		-
Operating and environmental characteristics			
Connections	Input	mm ²	2 x 0.5...4 (24...10 AWG)
	Output	mm ²	2 x 0.5...4 (24...10 AWG)
Mounting	On T ₊ rail		35 x 7.5 mm and 35 x 15 mm
Operating position	Vertical plane		Mounted vertically Mounted horizontally with derating of maximum power by 40% from 50°C Vertical or horizontal position
Degree of protection	Conforming to IEC/EN 60529		IP 20
Environment	Temperature	Operation	°C - 25...+ 60
		Storage	°C - 40...+ 85
	Relative humidity	Operation	90%
		Storage	95%
	Vibrations acc. to CEI/EN 61131-2		3...11.9 Hz amplitude 3.5 mm; 11.9... 150 Hz acceleration 2 g
Protection class			Class III
Dielectric strength 50 Hz for 1 min	Input/output	V rms	500 ~
	Input/ground	V rms	500 ~
	Output/ground	V rms	500 ~
Emissions according to EN 61000-6-3	Conducted/radiated		EN 55022 - Class B
Immunity according to IEC/EN 61000-6-2	Electrostatic discharge		IEC/EN 61000-4-2 (6 kV contact/8 kV air)
	Radiated electromagnetic fields		IEC/EN 61000-4-3 level 3 (10 V/m)
	Induced electromagnetic fields		IEC/EN 61000-4-6 level 3 (10 V/m)
	Rapid transients		IEC 61000-4-4 level 3 (2 kV)
	Surges		IEC/EN 61000-4-5 level 2 (1 kV)