

# 1 Specifications

**Table 2. Specifications**

Symbol	Parameter	Test condition	Min	Typ	Max	Unit
$V_i$	Input voltage	Nominal voltage value	90		264	VAC
			120		370	VDC
$W_o$	Rated power				3	W
$f_i$	Input frequency range	AC input	47		440	Hz
$I_C$	Input current - full load	115 VAC			0.4	A
		230 VAC			0.2	
$I_{INR}$	Inrush current	Pulse < 10 ms 115 VAC 250 VAC			5 10	A
$I_L$	Leakage current	50 Hz, 230 VAC			20	$\mu$ A
$V_O$	Output voltage			12		V
$V_{OA}$	Output voltage accuracy	Full load			$\pm 3$	%
$V_{OLI}$	Line voltage regulation	Low to high line			$\pm 1$	%
$V_{OLO}$	Load voltage regulation	5% to 10% full load			$\pm 6$	%
$I_O$	Output current		0		250	mA
$f_{SW}$	Operating frequency	Self oscillating			300	kHz
E	Efficiency	Full load		80		%
$V_{IS}$	Isolation voltage	Input to output	3750			VAC
$R_{IS}$	Isolation resistance	Input to output	100			M $\Omega$
$I_{OSH}$	Output short-circuit protection	Continuos automatic restart			1	A
$T_{OP}$	Operating temperature range	Free air convection	-40		85	$^{\circ}$ C
$T_{STG}$	Storage temperature range		-40		85	$^{\circ}$ C
$R_H$	Relative humidity	Operating conditions			95	%
MTFB	Mean time between failure	According to MIL-HDBK-217E + 50 $^{\circ}$ C full load	400			Khours
$W_E$	Weight	Encapsulated			25	g
		Open frame			12	

- Agency approvals  
The charger is compliant with most popular safety and EMC requirements, including:
  - EN60950
  - EN55014-1
  - EN55014-2
  - EN60730-1
  - EN60730-2-9
  - EN61010-1
  - UL60950
  - CAN/CSA-C22.2 No. 60950-00

**Caution:** Module design is performed in accordance with above norms. According to current rules the open frame module can only be certified as part of the customer mother board.