

PXe-AC-DC Series Programmable AC-DC Converter

PXe-1-60-0003x-AC-DC | 3kW | 230V AC input | 0-60Vdc / 0-50A adjustable output

Programmable 3kW AC-DC converter configured for a 230V single-phase 50Hz input and adjustable 0-60Vdc, 0-50A output. The unit provides constant-voltage and constant-current operating modes, fine voltage and current resolution, and RS232 Modbus RTU communications.

The specification below records the electrical, regulation, control, environmental, mechanical and compliance details for this configured unit.



Rated power 3kW	Input 230V 1PH, 50Hz	Output 0-60Vdc adjustable	Output current 0-50A adjustable
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1. General

Model	PXe-1-60-0003x-AC-DC
Capacity	3kW
Phase	Single phase in/ 0-60Vdc out

2. Input

Nominal Voltage	230V $\pm 10\%$, 1 Phase
Acceptable Range	207V-253V
Frequency	50Hz
Power Factor	Not specified in source

3. Output and regulation

Nominal Voltage	60Vdc (0-60Vdc adjustable)
Rated Current	0-50A adjustable
Ripple	$< 0.5\%FS + 10mV_{rms}$
Voltage Regulation	$< \pm 1\% FS$
Current Regulation	$< \pm 1\% FS$
Load Regulation	$< \pm 0.5\% FS$
Line Regulation	$< \pm 0.5\% FS$
Power Factor	1.0

Control, environment and compliance

Remaining specification values for the individual configured unit

4. Control, protection and operating modes

Communication Interface	RS232 (Modbus RTU)
Circuit Mode	PWM
Voltage Resolution	0.01V
Current Resolution	0.01A
LCD Display	Voltage Meter Current Meter
CV (Constant Voltage Mode)	10%-100% rated voltage, adjustable
CC (Constant Current Mode)	10%-100% rated current, adjustable
I-Limit Set	0-Max Current
V-Limit Set	0-Max Voltage
Protection	Over Current, Over Temp, Short Circuit, Overheat
Connectors	Terminal Blocks or Customer specification

5. Environment

Temperature	Operational: -10C~55C Ambient: -0C~40C
Noise	<65dB at 1 meter, EN55022, IEC1000-4
Humidity	20~80% non-condensing
Cooling	Variable speed fan, air intake in base, exhaust at rear
Altitude	<1800 meters
Castors or Feet	0.5-3kVA have rubber feet and lifting handles

6. Reliability and efficiency

Mean Time Between Failure (MTBF)	50,000Hrs
Mean Time to Restore (MTTR)	<30 minutes
Overall Efficiency	>85%

7. Dimensions and weight

Dimensions	480x450x88mm
Weight	16kg

8. Standards

CE	CE Marked, UL Conforming
Standards	GB 50054-95, GB 50150-1991, GB 50150-2006, GB 50171-1992, GB/T 16935.5-2008, GB/T 16935.4-2011
Additional standards	EN IEC61000-3-2, EN 6100-3-3, EN55032, EN55035, MIL-STD 461, MIL-STD 704, STANAG 1008

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