

# 90519037-240A48600S20

BITS2POWER® POWER DATA CONTROLLER

### **Product description**

- 48V Bits2Power constant voltage power supply
- Wide voltage range AC input
- Cooling by free air convection
- Class1 power unit
- 4 Status LEDs
- 3 Year Warranty
- CE certified
- IP20

## Applied Standards

EN55022 EN55024

### Technical notes

Dimensions	350x137x93mm
Weight	3 kg.
Housing	Stainless steel 430
Color	Blanc

### Ordering information

Туре	Article number
PDC600	90519037-240A48600S20



- <sup>(2)</sup> Nominal value
- <sup>(3)</sup> Tolerances of 5% and for each circuit
- Percentage of output current
- <sup>⑤</sup> To be determined
- <sup>6</sup> Rating @ full load







### **Electrical Characteristics**

Input voltage range	100 -240Vac
Frequency 2	50/60Hz
Output voltage ①	48 Vdc
Output current max ①	12,5 A
Output power max ②	600 W
Standby power ②	2,3 W

### Protections

Input current	Unrecoverable fuse
Output current	Automatic recovery
Overheating Protection	Automatic recovery

### Connections

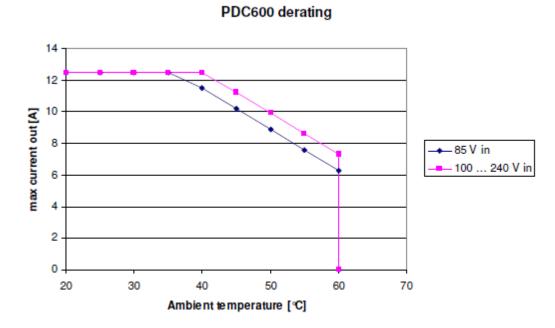
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Input voltage		AWG16 10
Output voltage		AWG16 10
I/O	USB	Firmware update
I/O slots	Protocol data key	Optional modules

### Indication LEDs

Multi color LED1	Signal strength	GreenYellow	
Multi color LED2	Load check	GreenRed	0100%
Single color LED1	Power on	Green	
Single color LED2	Error code	Red	see user manual

Technical deta Model	90519037-240A48600S20				
	Number of outputs	90519057-240	A40000320		
	Connections	AWG2010	2*2 screw terminals		
DC Output	Voltage	48	Vdc		
	Voltage tolerance	5	%		
Do output	Rated current	12.5	A		
	Current tolerance	5	%		
	Ripple & Noise(max)	5	mVp-p		
	Voltage Range	85 264	Vac		
	Frequency	4763	Hz		
	Standby power @	2,3	W		
	Current @	6,0	A @ 115V/60Hz	2,8	A @ 230V/50Hz
Maina Innut	Leakage current	0,3	mA @ 115V/60Hz	0,6	mA @ 230V/50Hz
Mains Input	Inrush current	54	A @ 115V/60Hz (10usec peak)	97	A @ 230V/50Hz (10usec peak)
		4,0	Arms @ 115V/60Hz (10ms)	3,2	Arms @ 230V/50Hz (10ms)
	Efficiency 6	92,2	% @ 115V/60Hz	90,3	% @ 230V/50Hz
	Power factor 6	0,995	@ 115V/60Hz	0,952	@ 230V/50Hz
	Connections	AWG1610			
Output	Short circuit		Recovers automatically after short is removed		
Protection	Over Voltage		matically after over (or reverse) volt	age is remo	oved
nput	Over current		by unrecoverable fuse		
Protection	Over voltage	Input protected by TVS diode			
	Withstand Voltage	I/P-FG: 1,5 kV			
	Isolation Resistance		IΩ / 500VDC / 25°C / 70% RH		
	Safety standards	EN-61024-7, E	EN60950-1		
Safety & EMC	EMI	EN55022 (CIS	PR22)		
	EMS immunity	EN55024, EN6	61000-4-2, 3, 4, 5, 6, 11		
	Harmonic Curent	EN61000-3-2,	3		
	Safety Class	1	1		
	Red	Overload indic	ation		
	Green	Communicatio	n indication		
Status LEDs	Multi-Color	Signal strengt	1		
	Multi-Color	Load check			
USB	Input	Firmware upda	ate		

### **Output derating**

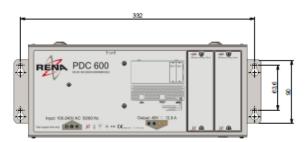


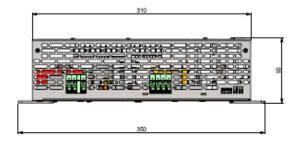


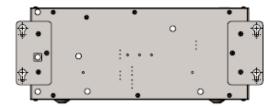
Subject to change without notice. Datasheet version 03 - 2019.06

### Mechanical Dimensions

Overall dimensions L = 350 x W = 137 mm Height = 93 mm
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### Module installation

Use screwdriver type PH1 for mounting optional modules into slot 1 and slot 2.

0	
Slot 2	Slot 1
0	0

### **Thermal Characteristics**

The controller can only operate under proper environmental conditions and the operating ambient air temperature must NOT exceed the maximum given temperature.

For an optimal lifetime performance the controller must be placed in an environment where a sufficient heat transport is guaranteed. The heat transport is done by natural convection. It's not recommended to expose the module to direct sunlight or any other heat source.

#### Environmental characteristics

Storage temperature	-20 – +85°C
Operating temperature	-5 – +40°C
Operating humidity	10-95% RH
IP classification	IP20

### Tc point

For an optimal lifetime performance the Tc point of the device must never exceed [  $\textcircled{\sc s}$  ] degrees Celsius.

The maximum value must be determined under operating conditions in a thermally stable state and under worst-case conditions for the current application

### Installation and Safety Information

Installation must be performed in accordance to the relevant regulations and standards. The following advice must be followed:

- See PDC600 controller manual for system installation details.
- The device contains components that are sensitive to electrostatic discharge and may only be installed in the factory and on site if appropriate EOS/ESD protection measures have been taken.
- Use wire size of minimum AWG 20 for connecting the B2P system.
- Use wire size of minimum AWG 14 for connection to mains.
- Please ensure the correct polarity of the leads.
- For outdoor or damp locations, be aware of the IP classification.

All above specifications must be met in order to qualify for the 3 year warranty.

### Packaging

Box size (mm)	370x170x125 mm
Quantity each Box	1
Weight each box (kg)	3,2 kg

