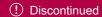




# regulated SMPS - single phase -100..240 V input - 12 V output - 60 W

ABL1REM12050

! Discontinued on: 23-Nov-2020



### Main

Range Of Product	Phaseo Dedicated
Product Or Component Type	Power supply
Power Supply Type	Regulated switch mode
Rated Power In W	60 W
Main Input Voltage	100240 V AC single phase 120370 V DC
Output Voltage	12 V DC
Power Supply Output Current	5 A
Operating Position	Any position
Vibration Resistance	2 gn (f= 9150 Hz) conforming to EN/IEC 61131-2 3.5 mm (f= 59 Hz) conforming to EN/IEC 61131-2
Name Of Test	Conducted interference conforming to EN 61000-4-8 level 4 Electrostatic discharges conforming to EN/IEC 61000-4-2 level 3 Induced electromagnetic field conforming to EN/IEC 61000-4-6 level 3 Radiated electromagnetic field conforming to EN/IEC 61000-4-3 level 3 Rapid transient conforming to IEC 61000-4-4 level 3 Conducted/radiated emissions conforming to EN 55022 class B Conducted/radiated emissions conforming to EN/IEC 55011 Emission conforming to EN/IEC 61000-6-3 Primary outage conforming to IEC 61000-4-11 Surge conforming to EN/IEC 61000-4-5

# Complementary

Input Voltage Limits	85264 V
Network Frequency	4763 Hz
Inrush Current	50 A at 115 V AC 100 A at 230 V AC
Cos Phi	0.65
Efficiency	80 %
Power Dissipation In W	15 W
Current Consumption	1 A at 240 V 2 A at 100 V
Input Protection Type	Integrated fuse (not interchangeable)
Output Voltage Limits	10.813.2 V
Line And Load Regulation	+/- 3 %
Holding Time	>= 10 ms at 100 V >= 40 ms at 240 V

Output Protection Type	Against overload, protection technology: 1.11.5 x ln Against overvoltage, protection technology: tripping if U > 1.25 x Un Against short-circuits, protection technology: automatic reset Thermal
Connections - Terminals	For ground connection: screw type terminals, connection capacity: 1 x 4 mm² AWG 12  For input connection: screw type terminals, connection capacity: 2 x 4 mm² AWG 12  For output connection: screw type terminals, connection capacity: 2 x 4 mm² AWG 12
Marking	CE
Mounting Support	Panel Reversible mounting bracket
Operating Altitude	2000 m
Output Coupling	Series Parallel
Overvoltage Category	II
Meantime Between Failure [Mtbf]	100000 h at 40 °C
Status Led	1 LED (green) output voltage
Net Weight	0.44 kg

### **Environment**

Product Certifications	KC RCM CSA 22-2 No 60950-1 EAC TUV 60950-1 cCSAus UL 508
Environmental Characteristic	EMC conforming to EN 50081-1 EMC conforming to EN 50082-2 EMC conforming to EN 61000-6-3 EMC conforming to EN/IEC 61000-6-2 Safety conforming to EN/IEC 60950-1 Safety conforming to SELV
Ip Degree Of Protection	IP20 conforming to EN/IEC 60950
Ambient Air Temperature For Operation	045 °C (without derating) 4560 °C (with derating factor)
Ambient Air Temperature For Storage	-2585 °C
Relative Humidity	2090 %
Overvoltage Category	Class I conforming to VDE 0106-1
Pollution Degree	2
Dielectric Strength	1500 V between input and ground 3000 V between input and output 500 V between output and ground

# **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1

# **Contractual warranty**

Warranty	18 months



**Green Premium**<sup>TM</sup> **label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

# Well-being performance



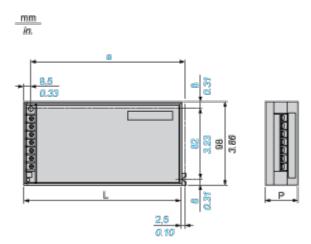
### **Certifications & Standards**

Reach Regulation	REACh Declaration		
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)		
China Rohs Regulation	China RoHS declaration		
Environmental Disclosure	Product Environmental Profile		
Circularity Profile	End of Life Information		

# **ABL1REM12050**

### **Dimensions Drawings**

### **Dimensions**



<b>-</b>			
I )ime	ensions	ın	mm
DILLIC	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		

а	L	Р
144	150	38

#### Dimensions in in.

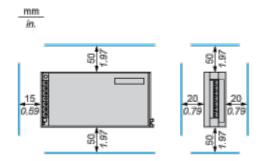
а	L	Р
5.67	5.91	1.50

# **Product datasheet**

# **ABL1REM12050**

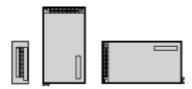
Mounting and Clearance

### Clearance



### **Mounting Way**

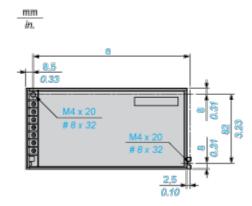
#### **Mounting on Vertical Plane**



### **Mounting on Horizontal Plane**



### Direct Mounting by 2 M4 x 20 Screws



#### Dimensions in mm

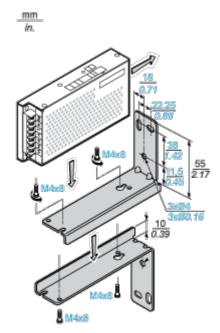
а	
144	

#### Dimensions in in

а	
5.67	

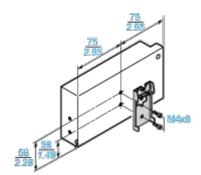
### ABL1REM12050

Mounting on the Back on ABL 1A01 Reversible Bracket by Three 4 mm Diameter Screws



### Mounting on ABL 1A02 Clip-on Mounting on 35 mm Rail





# ABL1REM12050

### Mounting by the Back



#### Dimensions in mm

b	С
38	58

### Dimensions in in.

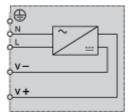
b	С
1.50	2.28

# **Product datasheet**

# **ABL1REM12050**

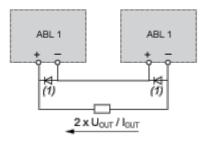
Connections and Schema

### **Internal Wiring Diagram**

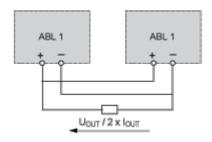


### **Series or Parallel Connection**

#### **Series Connection**



#### **Parallel Connection**



(1) 8 A/100 V Shottky diode

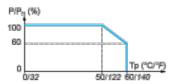
# **Product datasheet**

### **ABL1REM12050**

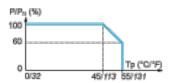
#### Performance Curves

# **Derating Curves**

### **Mounting on Vertical Plane**



#### **Mounting on Horizontal Plane**



### **Load Limits Curve**

