

- Connected to a DC line, allow to supply loads and charge the backup battery
- Suitable for 12 Vdc and 24 Vdc loads and batteries
- Deep discharge, overload and short circuit protections
- LED status indicator and alarm contact
- Configurazione della corrente di ricarica e del buffer timer tramite dip-switch
- Start loads from battery



NOTE:

(1) The request of current depends on the load current (Iout) and charge current (Ich), based on the formula $I_{in} = 0.2A + I_{out} + I_{ch}$

CODE	XCSU5240W024VAA
TYPE	CSU5240W024VAA
INPUT TECHNICAL DATA	
Input rated voltage	12-24 Vdc
Input voltage AC	-
Input voltage DC	10...17 Vdc / 19...30 Vdc
Frequency	-
Current consumption	0...4.2A (1)
Inrush peak current	-
Power factor	-
Internal protection fuse	-
External protection on AC line	-
OUTPUT TECHNICAL DATA	
Output rated voltage	12-24 Vdc
Output voltage range	10...17 Vdc / 19...30 Vdc
Nominal current	20 A (12 Vdc) / 10 A (24 Vdc)
Maximum output current	22 A (12 Vdc) / 14 A (24 Vdc)
Output protection fuse	20 A
Status indication	Green LED « DC IN », Yellow LED « BATT », Red LED « ALARM »
Allarm contact	2 relays (DC IN, ALARM)
Protections	short circuit, overload, polarity inversion
BATTERY TECHNICAL DATA	
Battery type	Lead-acid, lead gel
Voltage battery	12-24 Vdc
Battery capacity	1.2...40Ah, max 60 Ah with slow charge (tab.1)
Charging current	0.12...4 A
Buffer timer	from 30 sec to 60 min, can be disabled (tab.2)
Battery disconnection voltage	9 Vdc (12 Vdc) / 18 Vdc (24 Vdc)
Battery protection fuse	5 A
Protections	short circuit, deep discharge, polarity inversion
GENERAL TECHNICAL DATA	
Efficiency	96%
Operating temperature range	-20...+70°C
Input / output isolation	-
Input / ground isolation	-
Output / ground isolation	-
Standard / approvals	EN62368
EMC standard	EN 61000-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4
Overvoltage category / Pollution degree	II / 2
Protection degree	IP20
Connection terminal IN / OUT	2.5mm ² / 1.5mm ² push-in
Housing material	aluminium
Dimension (LxHxP)	40x115x115 mm
Approximate weight	300 g
Mounting information	vertical on a rail, 10 mm from adjacent components

APPROVALS



ACCESSORIES

Mounting rail (IEC60715/TH35-7.5)	PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB
Mounting rail (IEC60715/TH35-15)	PR/3/PP, PR/3/PP/ZB, PR/3/PA, PR/3/PA/ZB

APPLICATIONS

It's a smart battery charger with a microprocessor that is able to automatically select the input voltage and battery voltage to 12 or 24V. The device is able to charge gel battery or Lead-acid battery.

PRODUCT FEATURES:

- possibility to supply 12Vdc or 24Vdc load depending on the input voltage (crossed combination are not allowed).
- Selection of the Battery capacity through dip-switch, from 1.2Ah up to 40Ah.
- The device is protect against a wrong configuration, for example if the input voltage is 12Vdc and the battery is 24Vdc.
- Temporary start from battery without primary voltage is allowed.
- Programmable Shutdown timer through dip-switch (buffer timer).

tab1. Charge current

Battery type	Battery capacity	charge current
Lead acid, lead gel	1.2Ah	0.12A
	2.7Ah	0.27A
	3.4Ah	0.34A
	4.5Ah	0.45A
	7.2Ah	0.72A
	12Ah	1.2A
	18Ah	1.8A
Lead acid	27Ah	2.7A
	10Ah	1.5A
	20Ah/38Ah	3A
	40Ah	4A

tab2. buffer timer

time (minute)
disable
0.5
2
5
10
15
20
30
45
60

