

## VPI2420A ALL In One

Input: Single-phase 115 - 277 Vac; 600W Output Load: power supply 24 Vdc; 25 A Output Battery: charging 24 Vdc; 25 A

Suited for the following battery types: Open Lead Acid,

Sealed Lead Acid, lead Gel and Ni-Cd Automatic diagnostic of battery status.

Charging curve IUoU, constant voltage and constant current Battery Life Test function (Battery Care) Switching technology Four charging levels: Recovery,

Bulk, Absorption, Boost, and Float

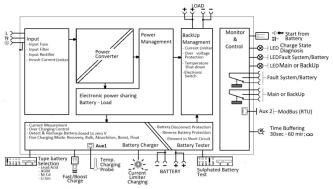
Climatic Data

Protected against short circuit and inverted Batt. polarity Signal output (contact free) for discharged or damaged battery

Signal output (contact free) for Mains or Back-UP Modbus RTU for all parameter, Battery and System Protection degree IP20 - DIN rail; Space saving

## **Technical features**

Thanks to the All In One units (DC-UPS), it will be possible to optimize power management. The available power is automatically allocated between load and battery, supplying power to the load is the first priority of the unit thus it is not necessary to double the power, because also the power going to the battery will go to the load if the load so requires. The maximum available current on the load output is 2 times the value of the device rated current In. We call "Battery Care" the concept base on algorithms that implement rapid and automatic charging, battery charge optimization during time, flat batteries recovery and real time diagnostic during installation and operation. The Real Time Auto-diagnostic system, monitoring battery faults such as, battery Sulfated, elements in short circuit, accidental reverse polarity connection, disconnection of the battery, they can easily be detected and removed by help of Blink Code of Diagnosis Led; during the installation and after sell. The continuous monitoring of battery efficiency, reduces battery damage risk and allows a safe operation in permanent connection. Each device is suited for all battery types, by means of jumpers it is possible setting predefined curves for Open Lead Acid, Sealed Lead Acid, Gel, Ni-Cd (option). They are programmed for two charging levels, boost and charge, but they can be changed to single charging level by the user. A rugged casing with bracket for DIN rail mounting provides IP20 protection degree. They are extremely compact and cost-effective.



## **Norms and Certifications**

In Conformity to: £7% EN60950 / UL60950-1 and CSA C22.2 No. 60950-1-07 (Information Technology Equipment) — Safety — Part1: General Requirement. Electrical safety; EN54-4 Fire Detection and fire alarm systems; 89/336/EEC; EMC Directive 2014/35/UE and Low voltage Directive 2014/35/UE; Safety EN IEC 62368-1: 2014/AC:2015; DIN41773 (Charging cycle); Emission: IEC 61000-6-3; Immunity: IEC 61000-6-2. CE.

All specifications are subject to change without notice

De Rating Ta > 50°C  Ambient temperature Storage  Humidity at 25 °C no condensation  Altitude: 0 to 2 000m - 0 to 6 560ft  Altitude: 2 000 to 6 000m-6 560 to 20 000ft  Cooling  General Data  Insulation voltage (IN/OUT)  Insulation voltage (Input / Earth, PE)  Insulation voltage (Out Load & Battery / Earth, PE)  Insulation voltage (Out Load, Battery, Aux2 / 50 fault System & Main or Back Up terminal)  Protection Class (EN/IEC 60529)  Reliability: MTBF IEC 61709  Pollution Degree Environment  Connection Terminal Blocks screw Type  Protection class (PE Connected)  Dimensions (w-h-d)  Weight  Input Data  Nominal Input Voltage Vac  Inrush Current (Vn – In nom. Load) I2t  Frequency  Input Current (115 – 230 Vac)  Internal fuse (not replaceable)  External Fuse (recommended) MCB curve B  Output Data (internal power supply)  Output Voltage (Vn) / Nominal Current (In)  Pesidual Ripple  Serical Storage (Incomplying mains voltage)  Turn-On delay after applying mains voltage	5 ÷ +70°C 2.5%(In) / °C 0 ÷ +85°C 5% to 25°C o restrictions
Ambient temperature Storage Humidity at 25 °C no condensation Altitude: 0 to 2 000m - 0 to 6 560ft Altitude: 2 000 to 6 000m-6 560 to 20 000ft  Cooling General Data Insulation voltage (IN/OUT) Insulation voltage (Input / Earth, PE) Insulation voltage (Out Load & Battery / Earth, PE) Insulation voltage (Out Load, Battery, Aux2 / 50 fault System & Main or Back Up terminal) Protection Class (EN/IEC 60529) Reliability: MTBF IEC 61709 Pollution Degree Environment Connection Terminal Blocks screw Type Protection class (PE Connected) Dimensions (w-h-d) Weight Input Data Nominal Input Voltage Vac Inrush Current (Vn – In nom. Load) I2t Frequency Input Current (115 – 230 Vac) Internal fuse (not replaceable) External Fuse (recommended) MCB curve B Output Data (internal power supply) Output Voltage (Vn) / Nominal Current (In) Pesidual Ripple Serious (a 50% of rated current) Serious (2000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 ÷ +85°C 5% to 25°C
Humidity at 25 °C no condensation Altitude: 0 to 2 000m - 0 to 6 560ft Altitude: 2 000 to 6 000m-6 560 to 20 000ft  General Data Insulation voltage (IN/OUT) Insulation voltage (Input / Earth, PE) Insulation voltage (Out Load & Battery / Earth, PE) Insulation voltage (Out Load, Battery, Aux2 / Fault System & Main or Back Up terminal) Protection Class (EN/IEC 60529) Reliability: MTBF IEC 61709 Pollution Degree Environment Connection Terminal Blocks screw Type Protection class (PE Connected) Dimensions (w-h-d) Weight Input Data Nominal Input Voltage Vac Inrush Current (Vn – In nom. Load) I2t Frequency Input Current (115 – 230 Vac) Internal fuse (not replaceable) External Fuse (recommended) MCB curve B Output Data (internal power supply) Output Voltage (Vn) / Nominal Current (In) Pessidual Ripple Serious (at 50% of rated current) Serious (2000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5% to 25°C
Altitude: 0 to 2 000m - 0 to 6 560ft Altitude: 2 000 to 6 000m-6 560 to 20 000ft  General Data Insulation voltage (IN/OUT) Insulation voltage (Input / Earth, PE) Insulation voltage (Out Load & Battery / Earth, PE) Insulation voltage (Out Load, Battery, Aux2 / Fault System & Main or Back Up terminal) Protection Class (EN/IEC 60529) Reliability: MTBF IEC 61709 Pollution Degree Environment 2. Connection Terminal Blocks screw Type Protection class (PE Connected) Dimensions (w-h-d) Weight Input Data Nominal Input Voltage Vac Inrush Current (Vn – In nom. Load) I2t Frequency Input Current (115 – 230 Vac) Internal fuse (not replaceable) External Fuse (recommended) MCB curve B Output Data (internal power supply) Output Voltage (Vn) / Nominal Current (In) Pesidual Ripple Serious (at 50% of rated current) Serious (Internal power supply) Turn-On delay after applying mains voltage	
Altitude: 2 000 to 6 000m-6 560 to 20 000ft  Cooling  General Data  Insulation voltage (IN/OUT)  Insulation voltage (Input / Earth, PE)  Insulation voltage (Out Load & Battery / Earth, PE)  Insulation voltage (Out Load, Battery, Aux2 / 50 fault System & Main or Back Up terminal)  Protection Class (EN/IEC 60529)  Reliability: MTBF IEC 61709  Pollution Degree Environment  Connection Terminal Blocks screw Type  Protection class (PE Connected)  Jimensions (w-h-d)  Weight  Input Data  Nominal Input Voltage Vac  Inrush Current (Vn – In nom. Load) I2t  Frequency  Input Current (115 – 230 Vac)  Internal fuse (not replaceable)  External Fuse (recommended) MCB curve B  Output Data (internal power supply)  Output Voltage (Vn) / Nominal Current (In)  Poil (Input Current In = Iload)  Efficiency (at 50% of rated current)  Essidual Ripple  Turn-On delay after applying mains voltage	o restrictions
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Insulation voltage (IN/OUT)  Insulation voltage (Input / Earth, PE)  Insulation voltage (Out Load & Battery / Earth, PE)  Insulation voltage (Out Load, Battery, Aux2 / 50  Fault System & Main or Back Up terminal)  Protection Class (EN/IEC 60529)  Reliability: MTBF IEC 61709  Pollution Degree Environment  Connection Terminal Blocks screw Type  Protection class (PE Connected)  Dimensions (w-h-d)  Weight  Input Data  Nominal Input Voltage Vac  Inrush Current (Vn – In nom. Load) I2t  Frequency  Input Current (115 – 230 Vac)  Internal fuse (not replaceable)  External Fuse (recommended) MCB curve B  Output Data (internal power supply)  Output Voltage (Vn) / Nominal Current (In)  Residual Ripple  50  Turn-On delay after applying mains voltage	uto convention
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Insulation voltage (Out Load & Battery / Earth, PE)  Insulation voltage (Out Load, Battery, Aux2 / 50 Fault System & Main or Back Up terminal)  Protection Class (EN/IEC 60529)  Reliability: MTBF IEC 61709  Pollution Degree Environment  Connection Terminal Blocks screw Type  Protection class (PE Connected)  Dimensions (w-h-d)  Weight  Input Data  Nominal Input Voltage Vac  Inrush Current (Vn – In nom. Load) I2t  Frequency  Input Current (115 – 230 Vac)  Internal fuse (not replaceable)  External Fuse (recommended) MCB curve B  Output Voltage (Vn) / Nominal Current (In)  Output Voltage (Vn) / Nominal Current (In)  Output Current In = Iload  Efficiency (at 50% of rated current)  Residual Ripple  Turn-On delay after applying mains voltage	000 Vac
Insulation voltage (Out Load & Battery / Earth, PE)  Insulation voltage (Out Load, Battery, Aux2 / 50 Fault System & Main or Back Up terminal)  Protection Class (EN/IEC 60529)  Reliability: MTBF IEC 61709  Pollution Degree Environment  Connection Terminal Blocks screw Type  Protection class (PE Connected)  Dimensions (w-h-d)  Weight  Input Data  Nominal Input Voltage Vac  Inrush Current (Vn – In nom. Load) I2t  Frequency  Input Current (115 – 230 Vac)  Internal fuse (not replaceable)  External Fuse (recommended) MCB curve B  Output Voltage (Vn) / Nominal Current (In)  Output Voltage (Vn) / Nominal Current (In)  Output Current In = Iload  Efficiency (at 50% of rated current)  Residual Ripple  Turn-On delay after applying mains voltage	000 Vac
Fault System & Main or Back Up terminal)  Protection Class (EN/IEC 60529)  Reliability: MTBF IEC 61709  Pollution Degree Environment  Connection Terminal Blocks screw Type  Protection class (PE Connected)  Dimensions (w-h-d)  Weight  Input Data  Nominal Input Voltage Vac  Inrush Current (Vn – In nom. Load) I2t  Frequency  Input Current (115 – 230 Vac)  Internal fuse (not replaceable)  External Fuse (recommended) MCB curve B  Output Data (internal power supply)  Output Voltage (Vn) / Nominal Current (In)  Output Current In = Iload  Efficiency (at 50% of rated current)  Residual Ripple  Turn-On delay after applying mains voltage	00 Vac
Fault System & Main or Back Up terminal)  Protection Class (EN/IEC 60529)  Reliability: MTBF IEC 61709  Pollution Degree Environment  Connection Terminal Blocks screw Type  Protection class (PE Connected)  Dimensions (w-h-d)  Weight  Input Data  Nominal Input Voltage Vac  Inrush Current (Vn – In nom. Load) I2t  Frequency  Input Current (115 – 230 Vac)  Internal fuse (not replaceable)  External Fuse (recommended) MCB curve B  Output Data (internal power supply)  Output Voltage (Vn) / Nominal Current (In)  Output Current In = Iload  Efficiency (at 50% of rated current)  Residual Ripple  Turn-On delay after applying mains voltage	00 Vac
Protection Class (EN/IEC 60529)  Reliability: MTBF IEC 61709  Pollution Degree Environment  Connection Terminal Blocks screw Type  Protection class (PE Connected)  Dimensions (w-h-d)  Weight  Input Data  Nominal Input Voltage Vac  Inrush Current (Vn – In nom. Load) I2t  Frequency  Input Current (115 – 230 Vac)  Internal fuse (not replaceable)  External Fuse (recommended) MCB curve B  Output Data (internal power supply)  Output Voltage (Vn) / Nominal Current (In)  Quiput Current In = Iload  Efficiency (at 50% of rated current)  Residual Ripple  Turn-On delay after applying mains voltage	
Reliability: MTBF IEC 61709  Pollution Degree Environment  Connection Terminal Blocks screw Type  Protection class (PE Connected)  Dimensions (w-h-d)  Weight  Input Data  Nominal Input Voltage Vac  Inrush Current (Vn – In nom. Load) I2t  Frequency  Input Current (115 – 230 Vac)  Internal fuse (not replaceable)  External Fuse (recommended) MCB curve B  Output Data (internal power supply)  Output Voltage (Vn) / Nominal Current (In)  Quiput Current In = Iload  Efficiency (at 50% of rated current)  Residual Ripple  Curn-On delay after applying mains voltage	20
Pollution Degree Environment  Connection Terminal Blocks screw Type  14  Protection class (PE Connected)  Dimensions (w-h-d)  Weight  Input Data  Nominal Input Voltage Vac  Inrush Current (Vn – In nom. Load) I2t  Frequency  Input Current (115 – 230 Vac)  Internal fuse (not replaceable)  External Fuse (recommended) MCB curve B  Output Data (internal power supply)  Output Voltage (Vn) / Nominal Current (In)  Output Current In = Iload  Efficiency (at 50% of rated current)  Residual Ripple  Curn-On delay after applying mains voltage	300.000 h
Connection Terminal Blocks screw Type  14  Protection class (PE Connected)  Dimensions (w-h-d)  Weight  Input Data  Nominal Input Voltage Vac  Inrush Current (Vn – In nom. Load) I2t  Frequency  Input Current (115 – 230 Vac)  Internal fuse (not replaceable)  External Fuse (recommended) MCB curve B  Output Data (internal power supply)  Output Voltage (Vn) / Nominal Current (In)  Output Current In = Iload  Efficiency (at 50% of rated current)  Residual Ripple  5  Turn-On delay after applying mains voltage	
Protection class (PE Connected)  Dimensions (w-h-d)  Weight  Input Data  Nominal Input Voltage Vac  Inrush Current (Vn – In nom. Load) I2t  Frequency  Input Current (115 – 230 Vac)  Internal fuse (not replaceable)  External Fuse (recommended) MCB curve B  Output Data (internal power supply)  Output Voltage (Vn) / Nominal Current (In)  Output Current In = Iload  Efficiency (at 50% of rated current)  Residual Ripple  Zurn-On delay after applying mains voltage	5mm(24–
Dimensions (w-h-d)  Weight  Input Data  Nominal Input Voltage Vac  Inrush Current (Vn – In nom. Load) I2t  Frequency  Input Current (115 – 230 Vac)  Internal fuse (not replaceable)  External Fuse (recommended) MCB curve B  Output Data (internal power supply)  Output Voltage (Vn) / Nominal Current (In)  Output Current In = Iload  Efficiency (at 50% of rated current)  Residual Ripple  Zurn-On delay after applying mains voltage	lAWG)
Weight       1.         Input Data       1.         Nominal Input Voltage Vac       11         Voltage range Vac       90         Inrush Current (Vn − In nom. Load) I2t       ≤         Frequency       47         Input Current (115 − 230 Vac)       9         Internal fuse (not replaceable)       10         External Fuse (recommended) MCB curve B       16         Output Data (internal power supply)         Output Voltage (Vn) / Nominal Current (In)       24         Output Current In = Iload       25         Efficiency (at 50% of rated current)       ≥         Residual Ripple       ≤         Turn-On delay after applying mains voltage       1	with PE
Input Data       Nominal Input Voltage Vac     11       Voltage range Vac     90       Inrush Current (Vn − In nom. Load) I2t     ≤       Frequency     47       Input Current (115 − 230 Vac)     9       Internal fuse (not replaceable)     10       External Fuse (recommended) MCB curve B     16       Output Data (internal power supply)       Output Voltage (Vn) / Nominal Current (In)     24       Output Current In = Iload     25       Efficiency (at 50% of rated current)     ≥       Residual Ripple     ≤       Turn-On delay after applying mains voltage     1	0x115x135 mm
Input Data       Nominal Input Voltage Vac     11       Voltage range Vac     90       Inrush Current (Vn − In nom. Load) I2t     ≤       Frequency     47       Input Current (115 − 230 Vac)     9       Internal fuse (not replaceable)     10       External Fuse (recommended) MCB curve B     16       Output Data (internal power supply)       Output Voltage (Vn) / Nominal Current (In)     24       Output Current In = Iload     25       Efficiency (at 50% of rated current)     ≥       Residual Ripple     ≤       Turn-On delay after applying mains voltage     1	55 kg approx.
Voltage range Vac       90         Inrush Current (Vn − In nom. Load) I2t       ≤         Frequency       47         Input Current (115 − 230 Vac)       9         Internal fuse (not replaceable)       10         External Fuse (recommended) MCB curve B       16         Output Data (internal power supply)       0         Output Voltage (Vn) / Nominal Current (In)       24         Output Current In = Iload       25         Efficiency (at 50% of rated current)       ≥         Residual Ripple       ≤         Turn-On delay after applying mains voltage       1	
Inrush Current (Vn − In nom. Load) I2t  Frequency Input Current (115 − 230 Vac) Internal fuse (not replaceable) External Fuse (recommended) MCB curve B  Output Data (internal power supply) Output Voltage (Vn) / Nominal Current (In) Output Current In = Iload Efficiency (at 50% of rated current)  Residual Ripple  ✓ Turn-On delay after applying mains voltage	L5 - 230 - 277
Frequency  Input Current (115 – 230 Vac)  Internal fuse (not replaceable)  External Fuse (recommended) MCB curve B  Output Data (internal power supply)  Output Voltage (Vn) / Nominal Current (In)  Output Current In = Iload  Efficiency (at 50% of rated current)  Residual Ripple  Zurn-On delay after applying mains voltage	) – 135:180 – 30
Input Current (115 – 230 Vac)  Internal fuse (not replaceable)  External Fuse (recommended) MCB curve B  Output Data (internal power supply)  Output Voltage (Vn) / Nominal Current (In)  Output Current In = Iload  Efficiency (at 50% of rated current)  Residual Ripple  Zurn-On delay after applying mains voltage	35 A ≤ 5 msec.
Internal fuse (not replaceable)  External Fuse (recommended) MCB curve B  Output Data (internal power supply)  Output Voltage (Vn) / Nominal Current (In)  Output Current In = Iload  Efficiency (at 50% of rated current)  Residual Ripple  Zurn-On delay after applying mains voltage	7 ÷ 63 Hz
External Fuse (recommended) MCB curve B  Output Data (internal power supply)  Output Voltage (Vn) / Nominal Current (In)  Output Current In = Iload  Efficiency (at 50% of rated current)  Residual Ripple  Turn-On delay after applying mains voltage	– 4.5 A
Output Data (internal power supply)         Output Voltage (Vn) / Nominal Current (In)       24         Output Current In = Iload       25         Efficiency (at 50% of rated current)       ≥         Residual Ripple       ≤         Turn-On delay after applying mains voltage       1	) A
Output Data (internal power supply)         Output Voltage (Vn) / Nominal Current (In)       24         Output Current In = Iload       25         Efficiency (at 50% of rated current)       ≥         Residual Ripple       ≤         Turn-On delay after applying mains voltage       1	5 A
Output Voltage (Vn) / Nominal Current ( $I_n$ )24Output Current $I_n$ = Iload25Efficiency (at 50% of rated current) $\geq$ Residual Ripple $\leq$ Turn-On delay after applying mains voltage1 secondary	
Output Current $I_n = Iload$ 25Efficiency (at 50% of rated current) $\geq$ Residual Ripple $\leq$ Turn-On delay after applying mains voltage1 strength of the	l Vdc
Efficiency (at 50% of rated current) ≥ Residual Ripple ≤ Turn-On delay after applying mains voltage 1	5 A
Residual Ripple ≤ Turn-On delay after applying mains voltage 1 :	91 %
Turn-On delay after applying mains voltage 1	80 mV <sub>pp</sub>
	sec. (max)
	es, Unlimited
Dissipation power load max (W) 48	
	es (70 A)
, , ,	es (45 A)
	es (typ. 35 Vdc)
Overheating Thermal protection Ye	
Battery Output	

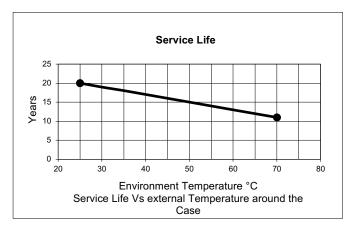
22 Cd) 1.1 x In 25 A 40 A  60 A 40 A  RTCC Push 0.5;2 30; 4 21 19  Yes Yes Yes Yes O947.4.1 ) Min: 10  C C C RJTe (cab) Aux	max. max.  DNN (ca     Button 2;5;10;1: 15;60;∞ 22 Vdc 20 Vdc	ble) 5; 20; batt batt  DC1: Vdc  NO NO
22 Cd) 1.1 x In 25 A 40 A  60 A 40 A  RTCC Push 0.5;2 30; 4 21 19  Yes Yes Yes O947.4.1 ) Min: 10  C C C	max. max. DNN (can Button 2;5;10;1: 45;60;∞ 22 Vdc 20 Vdc  L): Max: mA at 5  NC NC emp xxx le) Aux1	ble) 5; 20; batt batt  DC1: Vdc  NO
22 Cd) 1.1 x 1 <sub>n</sub> 25 A 40 A 60 A 40 A  RTCC Push 0.5;2 30; 4 21 19  Yes Yes Yes Yes O947.4.1 ) Min: 1i C C C	max. max.  DNN (can Button 2;5;10;1:135;60;∞ 22 Vdc 20 Vdc  L): Max: mA at 5  NC NC	ble) 5; 20; batt batt  DC1: Vdc  NO
22 Cd) 1.1 x 1 <sub>n</sub> 25 A 40 A  60 A 40 A  RTCC Push 0.5;2 30; 4 21 19  Yes Yes Yes Yes O947.4.1 ) Min: 11 C C	max. max.  DNN (can Button 2;5;10;1:135;60;∞ 22 Vdc 20 Vdc  L): Max: mA at 5	ble) 5; 20; batt batt  DC1: Vdc
22 Cd) 1.1 x In 25 A 40 A 60 A 40 A  RTCC Push 0.5;2 30; 4 21 19  Yes Yes Yes Yes O947.4.1 ) Min: 11	max. max.  DNN (can Button 2;5;10;1:135;60;∞ 22 Vdc 20 Vdc  L): Max: mA at 5	ble) 5; 20; batt batt  DC1: Vdc
22 - Cd) 1.1 x In 25 A 40 A 60 A 40 A  RTCC Push 0.5;2 30; 4 21 - 19 -  Yes Yes Yes Yes O947.4.1 ) Min: 10	max. max.  DNN (ca  Button 2;5;10;1: 15;60;∞ 22 Vdc 20 Vdc  1): Max: mA at 5	ble) 5; 20; batt batt  DC1: Vdc
22 Cd) 1.1 x 1 <sub>n</sub> 25 A 40 A 60 A 40 A RTCC Push 0.5;2 30;4 21 19 Yes Yes Yes	max. max.  DNN (can Button 2;5;10;1: 15;60;∞ 22 Vdc 20 Vdc	ble) 5; 20; batt batt
22 Cd) 1.1 x 1 <sub>n</sub> 25 A 40 A 60 A 40 A RTCC Push 0.5;2 30;4 21 19 Yes Yes Yes	max. max.  DNN (can Button 2;5;10;1: 15;60;∞ 22 Vdc 20 Vdc	ble) 5; 20; batt batt
22 Cd) 1.1 x 1 <sub>n</sub> 25 A 40 A 60 A 40 A RTCC Push 0.5;2 30;4 21 19 Yes Yes	max. max.  DNN (can Button 2;5;10;1:15;60;∞ 22 Vdc 20 Vdc	ble) 5; 20; batt
22 Cd) 1.1 x 1 <sub>n</sub> 25 A 40 A 60 A 40 A  RTCC Push 0.5;2 30;4 21 19  Yes Yes	max. max.  DNN (ca  Button 2;5;10;1 15;60;∞ 22 Vdc	5% ble) 5; 20;
22 Cd) 1.1 x 1 <sub>n</sub> 25 A 40 A 60 A 40 A  RTCC Push 0.5;2 30;4 21 19  Yes Yes	max. max.  DNN (ca  Button 2;5;10;1 15;60;∞ 22 Vdc	5% ble) 5; 20;
22 Cd) 1.1 x 1 <sub>n</sub> 25 A 40 A 60 A 40 A RTCC Push 0.5;2 30;4 21 19 Yes	max. max.  DNN (ca  Button 2;5;10;1 15;60;∞ 22 Vdc	5% ble) 5; 20;
22 Cd) 1.1 x 1 <sub>n</sub> 25 A 40 A 60 A 40 A  RTCC Push 0.5;2 30; 4 21 19	max. max.  DNN (ca  Button 2;5;10;1 15;60;∞ 22 Vdc	5% ble) 5; 20;
22 Cd) 1.1 x In 25 A 40 A 40 A  RTCC Push 0.5;2 30; 4 21	max. max.  DNN (ca  Button 2;5;10;1 15;60;∞ 22 Vdc	5% ble) 5; 20;
22 Cd) 1.1 x In 25 A 40 A 40 A  RTCC Push 0.5;2 30; 4 21	max. max.  DNN (ca  Button 2;5;10;1 15;60;∞ 22 Vdc	5% ble) 5; 20;
22 Cd) 1.1 x In 25 A 40 A 40 A  RTCC Push 0.5;2 30; 4 21	max. max.  DNN (ca  Button 2;5;10;1 15;60;∞ 22 Vdc	5% ble) 5; 20;
22 - Cd) 1.1 x 1 <sub>n</sub> 25 A 40 A 40 A  RTCC Push 0.5;2 30; 4	max. max. max. DNN (ca a Button 2;5;10;1: 15;60;∞	ble) 5; 20;
22 - Cd) 1.1 x 1 <sub>n</sub> 25 A 40 A 60 A 40 A RTCC Push 0.5;2	max. max.  DNN (can Button 2;5;10;11	5% ble)
22 - Cd) 1.1 x In 25 A 40 A 60 A 40 A	max. max. ONN (ca	5% ble)
22 - Cd) 1.1 x 1 <sub>n</sub> 25 A 40 A 60 A RTCC	max. max.	5% ble)
22 - : Cd) 1.1 x I <sub>n</sub> 25 A 40 A 60 A	max.	5%
22 - ; Cd) 1.1 x I <sub>n</sub> 25 A 40 A	(I <sub>n</sub> A ±	
22 - ; Cd) 1.1 x I <sub>n</sub> 25 A 40 A	(I <sub>n</sub> A ±	
22 - ; Cd) 1.1 x I <sub>n</sub> 25 A 40 A	(In A ±	
22 - : Cd) 1.1 x I <sub>n</sub> 25 A	(In A ±	
22 - : Cd) 1.1 x I <sub>n</sub> 25 A	(In A ±	
22 - : Cd) 1.1 x	(In A ±	
22 - : Cd)		
22 - 3	28.8 V (	31 Ni-
	28.8 V (	31 Ni-
ВО		
ВО		
Bo	ost / Flo	at
5 s	tage	
≤ 1	L00 mA	
Ye	s	
Ye	s	
		-0 -71
		ng hv
		o / "bat
	•	. 3.43
		. 2 45
		2.25;
	NiCd:1.5 Lead Aci 2.27;2.3 NiCd:1.4 15 1 r 2- 25 10 Ye Ye Jui Ye	Lead Acid: 2.4 NiCd:1.51; Li-io Lead Acid: 2.23; 2.27;2.3 NiCd:1.4; Li-ion 15 h 1 min. 2 − 20 Vdc 25 A ± 5% 10 ÷ 100 % Yes Yes Enabli Jumper Yes Yes ≤ 100 mA 5 stage

Life Time Expectancy defines the minimum life expectancy of the
device in hours of operation. Being a device designed with
electrolytic capacitors, the maximum duration is defined at 15
years - 131,400 h. Any value higher than this is to be considered
only as a theoretical duration, calculated to be able to compare

devices with each other.

Ambient temp.	Out Power	115Vac	230Vac
25°C	24 Vdc - 10 A	642640h	883243h
25°C	24 Vdc - 20 A	158844h	634203h
40°C	24 Vdc - 10 A	187139h	292603h
40°C	24 Vdc - 20 A	25846h	182768h
Parallel Connection			
Order Code:		CBI2420	Α
-			

Parallel Connection by the Two device:	Aux 2
RJCONN45 (For parallel connection)	Cable RJ45/RJ45



## **Accuracy Measurement trough ModBus (RTU)**

Accuracy on the Input side

Measure of the Main Input voltage	±1%
at 47- 63Hz; ±25°C; 90 – 305 Vac	of Full Scale Vac
Accuracy on the output side	
Measure of the Output voltage Load Side	± 1.5% of Full
Range: 10 - 31Vdc	Scale Vdc Out
Measure of the Output current Load Side	± 1.5% of Full
Range: 0-15A	Scale I Out
Measure of the Output voltage Battery Side	± 1.5% of Full
Range: 0-15A	Scale Vdc Out
Measure of the Output current Battery Side	± 1.5% of Full
Range: 0-15A	Scale I Out
Temperature Probe	±2°C
Range:-20 – 60°C	

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RTCONN	Cable Start from battery Length 1m. Jumper
	6
RJTEMP451	Temperature Probe Length 1m.
RJTEMP453	Temperature Probe Length 3m.
RJCONN45	Cable RJ45/RJ45 for Parallel Connection or
	connection to DPY351
RJ45COUPLER	RJ45 Three way "Daisy Chain" for Aux 2
RJUSB280	Cable RJ45/USB (Aux2) Length 1m for
	connection to PC.
RJTB280	Connector RJ45/Terminal Block 4pin for Aux
	2
	To RS485 ModBus RTU
SHUNT50	Shunt 50A-75mV. For Out current Load
	Connected to DPY351 and DC-UPS
ADELViewsystem	PC App for: Monitoring, Logging,
	Configuration, Control, Alarm, of the devices
	in ADELBus network.
DPY351	HMI panel control for: Monitoring, Logging,
	Configuration, Control, Alarm, of the devices
	in ADELBus network.
DPY353	Display for: Monitoring the Battery state,
	Battery Charging Section.

