

Powering Reliability with SMPS Technology

SMPS BATTERY CHARGER

Customize

**Compact
Design**

**Universal
Output**

**High
Efficiency**

**Low
Maintenance**



~AC⚡DC~
POWER SOLUTIONS



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Features

- Ripple $\leq 0.5\%$
- Rectifier Efficiency $\geq 92\%$
- High Power Density, Compact Design
- Current Stabilization Accuracy $\leq 0.5\%$
- Power Factor ≥ 0.90
- n+1 Redundancy Configuration
- Output Suitable for All Battery Types
- Rectifier Current Sharing Imbalance $\leq 3\%$

Advantages



Compact Design



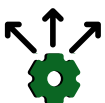
Low Maintenance



Quick Response



Safeguards load



Clean Output



Smart Integration



Modular Design



Better EMI compliance

Applications



Substation



Defence



Industry



Oil and Gas



Mining



Power



Railways



Chemical



Fertilizer



Food Processing

Protections

- Unbalanced Current
- Overvoltage
- Fan Failure
- Undervoltage

Technical Specifications

Specifications	Technical Details			
Parameter	24V DC Output	48V DC Output	110V DC Output	220V DC Output
Input Voltage	415 VAC $\pm 15\%$, 3-Phase	415 VAC $\pm 15\%$, 3-Phase	415 VAC $\pm 15\%$, 3-Phase	415 VAC $\pm 15\%$, 3-Phase
Frequency	45–65 Hz	45–65 Hz	45–65 Hz	45–65 Hz
Efficiency	$\geq 92\%$	$\geq 92\%$	$\geq 92\%$	$\geq 92\%$
Power Factor	$\geq 90\%$	$\geq 90\%$	$\geq 90\%$	$\geq 90\%$
DC Output Voltage Range	21 – 28V	42 – 56 V	95 – 150 V	190 – 300 V
Ripple	$\leq 0.2\%$	$\leq 0.2\%$	$\leq 0.2\%$	$\leq 0.2\%$
Voltage Stability	$\leq \pm 0.5\%$	$\leq \pm 0.5\%$	$\leq \pm 0.5\%$	$\leq \pm 0.5\%$
Current Stability	$\leq \pm 0.5\%$	$\leq \pm 0.5\%$	$\leq \pm 0.5\%$	$\leq \pm 0.5\%$
Soft Start Delay	3 – 8 seconds	3 – 8 seconds	3 – 8 seconds	3 – 8 seconds
Acoustic Noise	< 50 dB	< 50 dB	< 50 dB	< 50 dB
Communication Protocol	RS485 (Modbus)	RS485 (Modbus)	RS485 (Modbus)	RS485 (Modbus)

"Product images and technical specifications are subject to change as a result of continuous development. Any customizations required to meet special applications can be provided by us."



Core Purpose

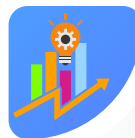


Protect Mission Critical Equipments Backed by Technology and Trust

Core Values



Responsive to
Change

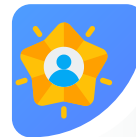


Growth through

- Merit and Hard Work
- Solution Oriented Approach



Human and
Machine Safety



Customer
Centricity

OUR PRODUCTS

AC Solutions

- Industrial Inverters
- Static Voltage Stabilizers
- AVR 100 KVA to 2000 KVA
- Industrial UPS - 1KVA to 500KVA
- Isolation Transformer - 1KVA to 2000KVA
- Static Frequency Converter - 1KVA to 500KVA
- Servo Controlled Voltage Stabilizers - 1KVA to 300KVA

DC Solutions

- Battery Chargers – SCR /IGBT technology (10A to 1000A)
- Battery Chargers – SMPS technology (10 A to 500A)
- DC rails
- DC-DC converters
- Battery jump starters
- Solar Charge Controllers
- Lithium battery based Solutions



CONTACTS



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