



Debtronics

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Industrial Automation Control Panels

Providing
Technologies
& Solutions
Since 1997

E-RICKSHAW BATTERY CHARGER

Features

- Available in **48 V/12A, 48 V/15A,**
- **48 V/20A, 60 V/12A, 60 V/15A**
- **SMPS** based fully automatic system
- Microcontroller based **Control Circuit**
- **4 Stage Charging** Topology based on **PWM**
- Provision for Charging of **Deep Discharged Batteries**
- **Robust & Corrosion Resistant** Cabinet
Guarantees **Long Life for Battery**



Solar Battery Charger

Features

- Available in **Voltage Ranges** from **12V DC to 120V DC**
- Wide Charging Ampere Rating : from **10 A to 60 A**
- Micro-Controller Based **Control Circuit**
- **3 Stage Charging Topology** - PWM based
- **Robust & Corrosion Resistant** Cabinet
- Guarantees **Long Life for Battery**



We also Design, Manufacture & Supply :

Non-conventional Energy Systems (Solar & Wind),
Weighing Scales & Systems for Industry;
Automation Control Panels for Construction Equipments (Mixing & Hoisting);
Control Panels for Fly Ash Bricks; INDUSTRIAL Automation.

E - Rickshaw Battery Charger - Technical Specifications

BATTERY CHARGER	48V/12A	48V/17A	48V/20A	60V/12A	60V/15A
MODEL	SAS 4812	SAS 4817	SAS 4820	SAS 6012	SAS 6015
AC INPUT					
AC INPUT VOLTAGE RANGE	160 - 275 V AC				
AC INPUT VOLTAGE NOMINAL	230V AC , 50 Hz				
AC INPUT CURRENT	5 AMPS	6 AMPS	7 AMPS		
TOPOLOGY	HALF - BRIDGE				
DC INPUT					
DC OUTPUT VOLTAGE	62.4 V			81 V	
DC OUTPUT CURRENT	12 A ±0.3 A	17 A ±0.4 A	20 A ± 0.5 A	12 A ±0.3 A	15 A ±0.4 A
PEAK EFFICIENCY	88 ~ 90%				
OUTPUT LINE & LOAD REGULATION	± 2%				
PROTECTION					
INPUT OVER VOLTAGE	Cuts off in range 280-290V AC				
OUTPUT OVERLOAD	Internal Current Limit Provided				
OUTPUT OVERCURRENT	Internal Current Limit Provided				
OUTPUT SHORT CIRCUIT	Shut Down by Internal Circuitry				
OUTPUT OVER VOLTAGE	Shut Down by Internal Circuitry				
OVER TEMPERATURE	Output Fold Back, Automatic Reconnection on Temperature Drop				
BATTERY REVERSE	Protected by DC Fuse				
COOLING	Fan Cooled				
ANNUNCIATION					
AC INPUT PRESENT	Red LED Glowing				
CHARGING ON	Red LED Glowing				
BATTERY STATUS LED	25%, 50%, 75%, 100% - Green LED				
BATTERY DETAILS					
BATTERY TYPE	Lead Acid Tubular / Li - Ion			Li-Ion	
BATTERY CAPACITY	80-105 Ah	100-150Ah		100 Ah	
ENVIRONMENTAL SPECIFICATIONS					
OPERATING TEMPERATURE	0° to 55°C				
STORAGE TEMPERATURE	-10° to 60°C				
RELATIVE HUMIDITY RANGE	Upto 95% RH				
PHYSICAL DIMENSIONS					
DIMENSIONS (LxBxH) In mm	250 x 175 x 120			250 x 150 x 90	
WEIGHT	3.5 kg			2.9 kg	
ENCLOSURE	Suitable Metal Cabinet				

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