TERMS & CONDITONS

- This Limited Warranty is provided by Smarten Power Systems Pvt Ltd and covers defects in workmanship and materials for your product. The warranty period lasts for 6 or 12 months? from the date of purchase at the point of sale. Proof of purchase is required to make warranty claims. This warranty is transferable to subsequent owners but only for the unexoired oxign or often of the warranty ceriod. Subsequent owners will also need proof of purchase.
- Smarten will, at its option, repair or replace the defective product free of charge, if you notify Smarten of the product defect within the Warranty Period, and if Smarten through inspection establishes the existence of such a defect and that is covered by this Limited
- Smarten will, at its option. use new and/or reconditioned parts in performing warranty repair and building replacement products. Smarten reserves the right to use parts or products of original or improved design in the repair or replacement. If Smarten repairs or replaces a product, its warranty continues for the remaining portion of the original warranty period. All replaced products and all parts removed from repaired products become the property of Smarten.
- In any warranty claim, dated proof of purchase must accompany the product and the product must not have been disassembled or modified without prior written authorization by Smarten.
- Proof of purchase may be in any one of the following forms
- . The dated purchase receipt from the original purchase of the product at point of sales.
- . The dated invoice or purchase receipt showing the product exchanged under warranty.
- This Limited Warranty does not cover normal wear and tear of the product or costs related to the removal, installation, or troubleshooting of the customer's electrical systems. Additionally, this warranty does not apply to, and Smarten will not be responsible for, any defects in or damage to the product.
- The either product if it has been misused, neglected, improperly installed, physically damaged or altered, internally or externally, or damaged from improper use or use in an unsuitable environment;
- The product if it has been subjected to fire, water, generalized corrosion, biological infestations, or input voltage that creates operating conditions beyond the maximum or minimum limits listed in the Smarten product specifications including high input voltage from
- The product if repairs have been done to it other than by Smarten;
- The product if it is used as a component part of a product expressly warranted by another manufacturer;

The product if its original identification (trade-mark, serial number) markings have been defaced, altered, or removed.

Out of Warranty Service:

If the warranty period for your product has expired.

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- If the unit was damaged by misuse or incorrect installation.

If other conditions of the warranty have not been met or if no dated proof of purchase is available, your product will be considered out of warranty and will be serviced only at the actual repair cost. *Conditions apply **WARRANTY CARD** Product Barcode / Serial No. ______ Model____ _ Date of purchase, _Contact No. . Manufactured by: Smarten Power Systems Pvt. Ltd. Dealer Signature Plot No. 374, Pace City-II, Sector-37, Gurugram, Harvana - 122001, India with stamp

PKG-IIM-033-01

PRODUCT SPECIFICATION		
Doc Ref No.	RD/EV CHARGER/60V/4Amp./R.01	
Date	04-07-2024	
Product FG Code	SCD-EV-300-060-01	
Charger Rating	60V, 4A	
Battery Pack	28Ah, 60V Lead Acid Battery	
Nominal Input Voltage	230V	
Nominal Input Current (RMS)	2.55A ± 15%	
Input Operation Voltage	125-300V	
Input Power Factor	>0.50	
Max Input Power	320W ± 10%	
Input Frequency Range	50-60Hz	
Battery Type	Lead Acid/VRLA	
Dc Output Voltage Range	52.5V to 72.5V	
Battery Quantity Required 12V (28Ah)	5	
Float Charging Voltage	68.0V ± 0.5V	
Boost Charging Voltage	72.5V ± 0.5V	
Battery Charging Current	4A ± 0.3A	
PROTECTIONS		
Short Circuit Protection	Yes, Provided	
Over Temperature	Yes provided, if Mosfet heat sink temperature goes above 110°C System will decrease the charging current.	
Reverse Battery	Red LED will glow	
DISPLAY PARAMETERS		
LED	Charging LED, Charged LED, Reverse Battery LED, Battery Connected	
SAFETY		
HV Test Input to Output	Leakage current <5mA when 3.75kV applied for 1 min	
ENVIRONMENT		
Operating Temperature	0°C to 50°C	
Storage Temperature	0°C to 50°C	
Operating Relative Humidity	90% Non-Condensing	

Note: Use only 5 lead acid batteries.



USER MANUAL .

EV SCOOTER CHARGER 60V / 4A



5 Stage FLC Charging Technology

Compatible for Lead Acid Battery

Reliable Charging

Compact Size Charger





USER MANUAL

EV SCOOTER CHARGER 72V / 3.3A



5 Stage FLC Charging Technology

Compatible for Lead Acid Battery

Reliable Charging

Compact Size Charger

PRODUCT SPECIFICATION	
Doc Ref No.	RD/EV CHARGER/72V/3.3Amp./R.01
Date	04-07-2024
Product FG Code	SCD-EV-300-072-01
Charger Rating	72V, 3.3A
Battery Pack	28Ah, 72V Lead Acid Battery
Nominal Input Voltage	230V
Nominal Input Current (RMS)	2.55A ± 15%
Input Operation Voltage	125-300V
Input Power Factor	>0.50
Max Input Power	320W ± 10%
Input Frequency Range	50-60Hz
Battery Type	Lead Acid/VRLA
Dc Output Voltage Range	63V to 87V
Battery Quantity Required 12V (28Ah)	6
Float Charging Voltage	81.6V ± 0.5V
Boost Charging Voltage	87.0V ± 0.5V
Battery Charging Current	3A ± 0.3A
PROTECTIONS	
Short Circuit Protection	Yes, Provided
Over Temperature	Yes provided, if Mosfet heat sink temperature goes above 110°C System
	will decrease the charging current.
Reverse Battery	Red LED will glow
DISPLAY PARAMETERS	
LED	Charging LED, Charged LED, Reverse Battery LED, Battery Connected
SAFETY	
HV Test Input to Output	Leakage current <5mA when 3.75kV applied for 1 min
ENVIRONMENT	
Operating Temperature	0°C to 50°C
Storage Temperature	0°C to 50°C
Operating Relative Humidity	90% Non-Condensing

Note: Use only 6 lead acid batteries.

MATTERS NEEDING ATTENTION

- 1. Please read the instruction before use
- 2. This charger is only suitable for lead-acid battery charging
- 3. For indoor use, beware of rain
- 4. Do not charge non-rechargeable batteries
- 5. Not to be open by non-professionals
- 6. If the power cord is damaged, it must be replaced by professionals to avoid danger
- 7. During charging the charger is prohibited to be covered
- 8. Must be placed in a well-ventilated place, is strictly prohibited to put the charger in the electric car or electric car charging. Beware of flames, sparks and explosive gases in case of fire







USER MANUAL

EV SCOOTER CHARGER 48V / 5A



5 Stage FLC Charging Technology

Compatible for Lead Acid Battery

Reliable Charging

Compact Size Charger

PRODUCT SPECIFICATION	
Doc Ref No.	RD/EV CHARGER/48V/5Amp./R.01
Date	25-11-2024
Product FG Code	SCD-EV-300-048-01
Charger Rating	48V, 5A
Battery Pack	28Ah, 48V Lead Acid Battery
Nominal Input Voltage	230V
Nominal Input Current (RMS)	2.55A ± 15%
Input Operation Voltage	125-300V
Input Power Factor	>0.50
Max Input Power	320W ± 10%
Input Frequency Range	50-60Hz
Battery Type	Lead Acid/VRLA
Dc Output Voltage Range	36V to 58V
Battery Quantity Required 12V (28Ah)	4
Float Charging Voltage	$54.0V \pm 0.5V$
Boost Charging Voltage	58.0V ± 0.5V
Battery Charging Current	5A ± 0.3A
PROTECTIONS	
Short Circuit Protection	Yes, Provided
Over Temperature	Yes provided, if Mosfet heat sink temperature goes above 110°C System will decrease the charging current.
Reverse Battery	Red LED will glow
DISPLAY PARAMETERS	
LED	Charging LED, Charged LED, Reverse Battery LED, Battery Connected
SAFETY	
HV Test Input to Output	Leakage current <5mA when 3.75kV applied for 1 min
ENVIRONMENT	
Operating Temperature	0°C to 50°C
Storage Temperature	0°C to 50°C
Operating Relative Humidity	90% Non-Condensing

Note: Use only 4 lead acid batteries.

MATTERS NEEDING ATTENTION

- 1. Please read the instruction before use
- 2. This charger is only suitable for lead-acid battery charging
- 3. For indoor use, beware of rain
- 4. Do not charge non-rechargeable batteries
- 5. Not to be open by non-professionals
- 6. If the power cord is damaged, it must be replaced by professionals to avoid danger
- 7. During charging the charger is prohibited to be covered
- 8. Must be placed in a well-ventilated place, is strictly prohibited to put the charger in the electric car or electric car charging. Beware of flames, sparks and explosive gases in case of fire



