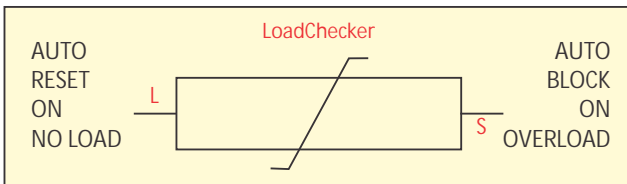


A Smart Load Limiter For Low Wattage Application

Load Checker



Biomass Power | Solar | Hydo Micro Grids | Real Estate |
Railways | Distributed Generation | Power Distribution |

For any queries, please write to lc@aartechsolonics.com
or contact us at our Registered Office

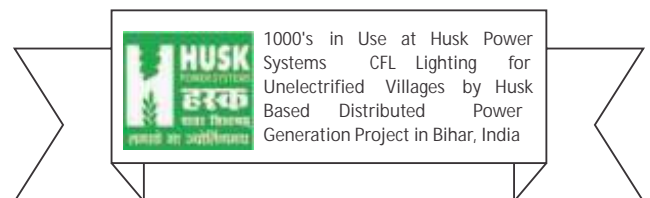
Application of LoadChecker

Biomass / Solar Micro grids: Fairly distribute limited power generation for LED/CFL Lighting Load and block higher rating loads such as Heaters, Hot Plate etc.

Railways: Ensure that only Mobiles and Laptops can be powered from service outlets in compartments / public places.

Residential Buildings: Ensure that Emergency Power (eg DG Set supply) distributed to all residents for lift operation / security lighting, cannot be used for non emergency purposes such as entertainment and personal comfort.

Hostels / Rental Accomodation: Ensure that only Mobiles and Laptops can be powered from service outlets in hostels / rental accommodations.



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Features :

- A Highly Economic
- Highly Effective
- Minimum Investment
- Zero Maintenance
- Zero Upkeep Cost
- Alternative to 100% Metering
- 100 % Protection Against Short Circuit



Q. What does LoadChecker do?

A. LoadChecker Blocks the mains supply to the load if excessive current is drawn through it. However, in the event of blocking, its patented self-reset feature normalizes the supply to the load, once the load is disconnected for minimum time. The entire operation does not require any manual effort or attention. The product uses Soft Blocking Technology thus ensuring very long life.



Q. What's the need for a product such as LoadChecker?

A. While 100% metering of various low Load consumers, fixed tariff connections or subsidized consumer groups requires heavy resource investments which do not pay-back, the practical need is that of simply ensuring that the load drawn from the connection is within pre-decided limits. Similar such needs exit for emergency power distribution, temporary connection, and pre-metering connection schemes. LoadChecker is a Smart Load Limiter that effectively meets these needs.



Q. How much time does the LoadChecker permit an overload condition?

A. LoadChecker normally permits upto 20% overload/creepage without blocking. On further overloading, it operates as per its Inverse-Time Characteristics. Thus, a higher load is blocked much faster, than a lower load above rated levels. Thus, temporary overloads such as those during motor

Features	Energy Meter	LoadChecker
Purchase	<ul style="list-style-type: none"> One Time High Cost 	<ul style="list-style-type: none"> One Time Low Cost
Installation	<ul style="list-style-type: none"> One Time Large Size Elaborate Sealing Process Installation at Customer Premises. Requires Additional Provisions such as meter Box/MCB etc. 	<ul style="list-style-type: none"> One Time Very Small Size Simple Installation. Can be Installed at Pole-Top outside customer Premises. Additional Provisions are not generally required.
Reading/Recording	<ul style="list-style-type: none"> Recurring Efforts Required Prone to Error 	<ul style="list-style-type: none"> Not Required for Fixed Tariff Connections
Tampering	<ul style="list-style-type: none"> Susceptible to Tamper since installed at Consumer Premises 	<ul style="list-style-type: none"> Factory Sealed and Resin Moulded No access to inner parts unless broken/ damaged. Physical Access not risk-worthy for Pole-Top Installations.
Meter Billing	<ul style="list-style-type: none"> Requires Sophisticated Services 	<ul style="list-style-type: none"> Simple, Efficient, Effective and Consumer Friendly.
Demand Side Management	<ul style="list-style-type: none"> Not Available 	<ul style="list-style-type: none"> Restricts Unwarranted Load Increase.
Reliability	<ul style="list-style-type: none"> High Component Count susceptible to failure. 	<ul style="list-style-type: none"> Very Good-Low Component Count
Stability/Accuracy	<ul style="list-style-type: none"> Good- But not critically required. 	<ul style="list-style-type: none"> Fair-Meets all practical requirements.
Ratings	<ul style="list-style-type: none"> 5-20 A/5-30A/10-40A/10-60A etc 	<ul style="list-style-type: none"> 31mA/5W, 100mA/24W, 160mA/30W, 200mA/48W, 300mA/72W, 400mA/96W (Other ranges available on request)
Protection	<ul style="list-style-type: none"> None/External MCB extra 	<ul style="list-style-type: none"> Short Circuit Proof
Guarantee	<ul style="list-style-type: none"> 5-10 Years 	<ul style="list-style-type: none"> 10 Years

Load Checker is currently available in following options:-

MCB Module: LC-01 M-xxx-yyyW) [xxx]:mA [yyy]:W (UPF @ 230VAC) [xxx mA/ yyy W]:

eg 100mA/24W, 200mA/48W, 300mA/72W, 400mA/96W

Pipe Module: LC-01 P-xxx-yyyW) [xxx]:mA [yyy]:W (UPF @ 230VAC) [xxx mA/ yyy W]:

eg 031 mA/005 W, 160mA/30W



WARNING: This device does not isolate the load from the supply.

To prevent shock hazards, always ensure that supply is disconnected before any access at load end.