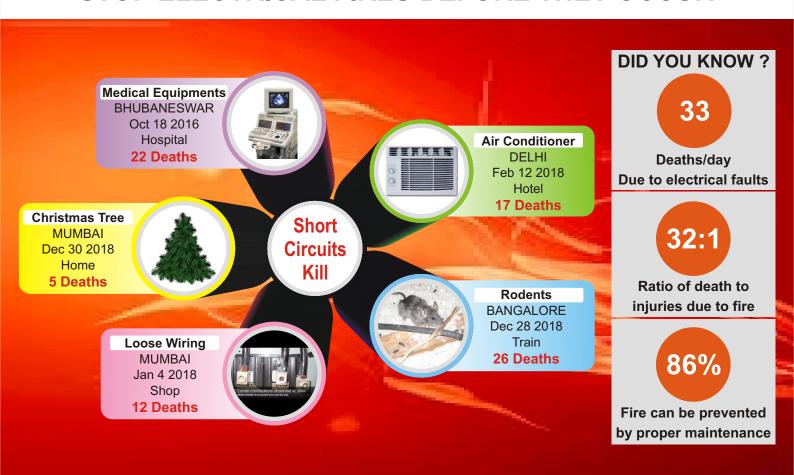


POWEReasy

STOP ELECTRICAL FIRES BEFORE THEY OCCUR



You need protection for 12 electrical faults to prevent fires

POWEReasy is India's 1st intelligent device that reports high risk electrical faults that the user must fix to avoid fires. It even isolates supply for critical faults. POWEReasy protects for 12 fire risks whereas an MCB and RCCB protect for only 3.





SMS Alerts





Prevent Fire

Save lives and assets



Actionable insights

Improves efficiency of electrician



Early Warnings **Prevent** unplanned shutdown



Reports to app

Monitoring on the go

COMPANY VISION

TO ENSURE EVERY LAST INDIAN GETS RELIABLE ELECTRICITY

India sees 33 deaths a day from electrical issues. Accidents, near misses and operational losses are accepted on a daily basis, as there are limited options for electrical safety solutions. Maintenance teams perform audits once a year that can identify 12 of 20 electrical risks. Realtime protection devices (MCB + RCCBs) protect for only 3 out of the 20 possible risks. The fact is the changing ecosystem of energy with (a) Move to renewable energy, (b) reliance on complex and electronics loads such as EVs, inverter based systems etc, (c) growing demand of electricity the risk to the consumer is increasing. Electrical safety needs a complete overhaul.

POWEReasy automates electrical safety. The patent pending POWEReasy is an IOT enabled device that not only monitors electrical conditions but also identifies all 20 electrical faults. It has the ability to isolate the electrical supply and even diagnose and report issues via the cloud.

- Automatic, realtime electrical audits. POWEReasy reports all electrical conditions to a dashboard that is constantly evaluating electrical risks. Electrical audits are no longer an annual event.
- **Fire prevention.** POWEReasy is the only device that can provide comprehensive protection and isolation in case of these 12 critical electrical events.
- Fault Diagnosis with root cause analysis. POWEReasy monitors electrical signatures in realtime to identify 20 unique electrical problems. It also reports the root cause, enabling effective and in-time correction to complex electrical faults.

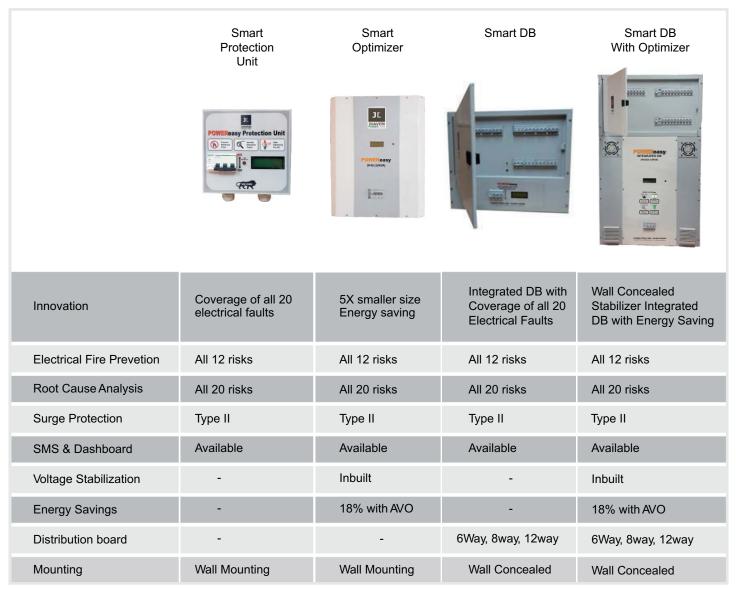
KNOWS RISK FOR ELECTRICAL FAULTS

Defautial Distriction of South Assistant						
Type of Fault / Functions	Potential Risk from fault			Solution Available		
	Fire	Electro -cution	Damage to equipment	Efficiency loss	MCB + RCCB	POWEReasy
Short circuit	X				Trip	Trip
Over current	X				Trip	Warn & Trip
Earth leakage	X	X	Χ		Trip	Warn & Trip
Critical Over voltage	X		Χ		No	Warn & Trip
Critical Under voltage	X		Χ		No	Warn & Trip
Earth voltage	X	Χ	Χ		No	Warn & Trip
Neutral loss	X		Χ		No	Trip
Phase/Line loss	X		Χ		No	Trip
Arc faults	X		Χ		No	Trip
Surge	X		Χ		No	Protect & Trip
Current unbalance	X			X	No	Warn
Current harmonics	X		Χ	X	No	Warn
Phase Reversal			X		No	Trip
Power factor				X	No	Warn
Voltage harmonics			Χ		No	Warn & Trip
Short term interruptions			X		No	Warn
Voltage variation			Χ	Χ	No	Warn
Voltage unbalance			Χ	X	No	Warn
Inrush current			Χ		No	Warn
Reverse current		Χ			No	Warn
Metering					No	Yes

POWEReasy SOLUTIONS SUMMARY

Maximize your performance. Unlock the potential for a new level of electrical safety. "0 downtime", "0 incidence", "lowering near misses", "reducing energy consumption" are just some of the KPIs you can maximize with POWEReasy.

Track & Optimize risks, metrics and KPIs



OUR CLIENTS.



POWEReasy PROTECTION UNIT (PU)

PARAMETER	FEATURES	POWEReasy Protection Unit The power of the			
		3P32PU	3P63PU		
	System Technology	Microcontroller sensed electrical fault signatures and realtime monitoring, reporting and automatic isolation			
Electrical	Capacity in Amp	32A 63A			
	Standards	EN61000-6-4, IEC 61000-4-3, IEC 610 IEC 61000-4-5,IEC 61000-4-6, IEC 61			
Electronics	Primary Microcontroller type	32 bit			
210011011100	Firmware version	JL-PE006			
Input	Min voltage Max voltage	280 V AC 500 V AC			
iliput	Nominal Frequency	47-53 HZ			
	System status indicator	20 x 4 LCD Display			
Output	Data Monitoring	In app / dashboard			
	Data logging	On cloud for all events			
Environmental	Operating Temperature	0 to 45 Degrees			
Liiviioiiiioiitai	Operating Humidity	95% non condensing			
Protective Features	Alerts for preventive maintenance Power cut off (with reports & logs)	1) Over Current 2) Earth Leakage 3) Over Voltage 4) Under Voltage 5) Earth Voltage 6) Loose Connection 7) Current unbalance 8) Current Harmonics 9) Power Factor 10) Voltage Harmonics 11) Short term Interruptions 12) Voltage variation 13) Voltage unbalance 14) Inrush current 15) Reverse current 1) Short circuit 2) Over current 3) Critical Earth leakage 4) Critical Over voltage 5) Critical Under voltage 6) Critical Earth voltage 7) Neutral loss 8) Phase loss / Line loss 9) Arcing 10) Surge 11) Phase / Line reversal 12) Critical Voltage harmonics			
	Audible alarm Isolation device Dimensions in mm	Audible alarm for faulty operation for 1 MCB with shunt trip Provision 220 x 80 X 250mm	5 sec		
	(LXBXH) Weight	3.2 Kg			
Physical	Input Output wire connections	Input R, Y, B to MCB Input Neutral, Output, R, Y, B, Neutral & Earth to terminal blocks			
	Mounting	Wall Mounting			
Obligations	Warranty	12 Months Standard			

POWEReasy THREE PHASE ENHANCED MODEL WITH STABILIZATION & ENERGY SAVINGS (EX)

PARAMETER	FEATURES	POWE BOASY STO (DOM)	Poweroasy area (security	POWER coay pres porce,	
		3P12WEX - 10KVA	3P20WEX-15KVA	3P40WEX-30KVA	
System Technology Electrical System Technology 2. Upgra 3. Upgra 4. Impro and decidents and decid			Microcontroller sensed electrical fault signatures and solid state device operated transformers with zero Current cross switching silent and hunting free operation. Upgraded design to operate at wider temperature ranges Upgraded to high inrush current handling Improved measurement accuracy using 32 bit microcontrollers and data logging features		
	Efficiency	99% Peak			
	Capacity in Amp	12A/Phase	20A/Phase	40A/Phase	
	Standards	EN61000-6-4, IEC 61000-4-3, IEC 61000-4-2,IEC 61000-4-4, IEC 61000-4-5,IEC 61000-4-6, IEC 61000-4-11			
	Primary Microcontroller type	32 bit			
Electronics	Firmware version	JL-PE009A			
	Data logging	Scalable with up to 100	events		
	Min voltage	330 V AC			
Input	Max voltage	470 V AC			
•	Nominal Frequency	47-53 HZ			
	Nominal POWEReasy Voltage	Auto-selected (between 360-415)			
	Regulation	1.50%			
	System status indicator	Red Led-Indicates system needs attention			
Output	Waveform Distortion	None added			
	Load Power Factor range	0 to 1			
	Response Time	Less than 1 sec			
	Operating Temperature	0 to 55 Degrees			
Environmental	Cabinet cooling methods	Fan cooled			
	Operating Humidity	95% non condensing			
		1) Temperature Rise/Over current			
	Automatic Bypass	2) Under voltage & Over voltage Detection			
	,,	3) In the event of Solid state Device failure			
		1) Over Current 6) Loose Connection 11) Short term Interruptions			
		2) Earth Leakage 7) Current unbalance 12) Voltage variation			
	Alerts for preventive	3) Over Voltage 8)	Current Harmonics 13	B) Voltage unbalance	
	maintenance	4) Under Voltage 9)	Power Factor 14	1) Inrush current	
		5) Earth Voltage 10)	Voltage Harmonics 15	Reverse current	
Protective		1) Short circuit	7) Neutr	al loss	
Features	Power cut off (with reports & logs)	2) Over current 8) Phase loss / Line loss			
		3) Critical Earth leakage 9) Arcing			
		4) Critical Over voltage			
		5) Critical Under voltage		e / Line reversal	
		Critical Earth voltage	12) Critica	al Voltage harmonics	
	Audible alarm	Audible alarm for faulty operation due to triac failure for 15 sec			
	Overload Ability	110% for 30 minutes			
	Short circuit	MCCB Provision			
	Manual bypass	Toggle switch for bypas	s the POWEReasy		
Physical	Dimensions in mm (LXBXH)	520 X 165 X 580	520 X 165 X 580	620 x 165 X 680	
	Weight	40 Kg	40 Kg	62 Kg	
	Input Output wire connections	Terminal Blocks for R,Y,B,Neutral & Earth.	Terminal Blocks for R,Y,B,Neutral & Earth.	Bus Bar for R,Y,B, Neutral & Earth.	
	Designed Life	10 Years			
	Warranty	24 Months Standard			

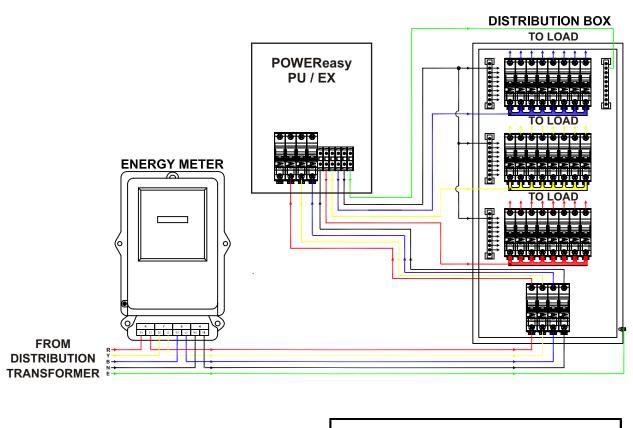
POWEReasy INTEGRATED DB WITH PROTECTION UNIT

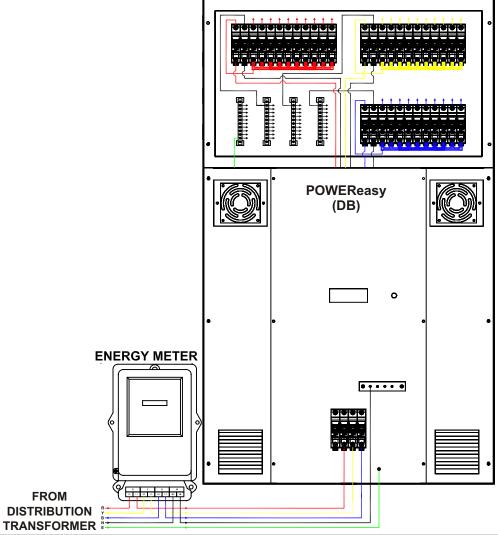
PARAMETER	FEATURES				
		PEIDB-3P32-12	PEIDB-3P62-12		
	System Technology	Microcontroller sensed electrical fault s reporting and automatic isolation with I	signatures and realtime monitoring, DB		
Electrical	Capacity in Amp	32A 63A			
	Standards	EN61000-6-4, IEC 61000-4-3, IEC 61000-4-2,IEC 61000-4-4, IEC 61000-4-5,IEC 61000-4-6, IEC 61000-4-11			
Electronics	Primary Microcontroller type	32 bit			
	Firmware version Min voltage	JL-PE006 280 V AC			
	Max voltage	500 V AC			
Input	Nominal Frequency	47-53 HZ			
	System status indicator	20 x 4 LCD Display			
Output	Data Monitoring	In app / dashboard			
	Data logging	On cloud for all events			
Environmental	Operating Temperature	0 to 45 Degrees			
Liivii Oililleillai	Operating Humidity	95% non condensing			
Protective Features	Alerts for preventive maintenance Power cut off (with reports & logs)	1) Over Current 2) Earth Leakage 3) Over Voltage 4) Under Voltage 6) Loose Connection 7) Current unbalance 8) Current Harmonics 9) Power Factor 10) Voltage Harmonics 11) Short term Interruptions 12) Voltage variation 13) Voltage unbalance 14) Inrush current 15) Reverse current 1 Short circuit 2) Over current 3) Critical Earth leakage 4) Critical Over voltage 5) Critical Under voltage 6) Critical Earth voltage 7) Neutral loss 8) Phase loss / Line loss 9) Arcing 10) Surge 11) Phase / Line reversal			
	Audible alarm Isolation device Dimensions in mm (LXBXH)	12) Critical Voltage harmonics Audible alarm for faulty operation for 15 sec MCB with shunt trip Provision 600 x 80 X 500mm			
Physical	Input Output wire connections	28 Kg Input & Output Line to MCB, Input Neutral & Earth to terminal blocks Input Neutral & Earth to Neutral links			
	No of Output Mounting	Per Phase 10 Output			
Obligations	Warranty	Wall Mounting 12 Months Standard			

SPECIFICATIONS FOR POWEReasy INTEGRATED DB WITH STABILIZATION & ENERGY SAVINGS

PARAMETER	FEATURES				
		PEIDB-3P12-4X	PEIDB-3P20-12		
Electrical	System Technology	Microcontroller sensed electrical fault signatures and solid state device operated transformers with zero Current cross switching silent and hunting free operation with DB Upgraded design to operate at wider temperature ranges Upgraded to high inrush current handling Improved measurement accuracy using 32 bit microcontrollers and data logging features			
	Efficiency	99% Peak			
	Capacity in Amp	12A/Phase	20A/Phase		
	Standards	EN61000-6-4, IEC 61000-4-3, IEC 61000-4-2,IEC 61000-4-4, IEC 61000-4-5,IEC 61000-4-6, IEC 61000-4-11			
-	Primary Microcontroller type	32 bit			
Electronics	Firmware version	JL-PE009A			
	Data logging	Scalable with up to 100 events			
	Min voltage Max voltage	330 V AC			
Input	Nominal Frequency	470 V AC			
		47-53 HZ			
	Nominal POWEReasy Voltage Regulation	Auto-selected (between 360-415)			
	System status indicator	1.50%	tantian		
Output	-	Red Led-Indicates system needs attention			
Output	Waveform Distortion Load Power Factor range	None added 0 to 1			
	Response Time				
	Operating Temperature	Less than 1 sec 0 to 55 Degrees			
Environmental	Cabinet cooling methods				
Environmental	Operating Humidity	Fan cooled 95% non condensing			
		1) Temperature Rise/Over current			
	Automatic Bypass	2) Under voltage & Over voltage Detection			
	Automatic Bypass	3) In the event of Solid state Device failure			
	Alerts for preventive maintenance	1) Over Current	9) Power Factor		
		2) Earth Leakage	10) Voltage Harmonics		
		3) Over Voltage	11) Short term Interruptions		
		4) Under Voltage	12) Voltage variation		
		5) Earth Voltage	13) Voltage unbalance		
		6) Loose Connection	14) Inrush current		
		7) Current unbalance	15) Reverse current		
Protective		8) Current Harmonics			
Features	Power cut off (with reports & logs)	1) Short circuit	7) Neutral loss		
		2) Over current	8) Phase loss / Line loss		
		Critical Earth leakage	9) Arcing		
		Critical Over voltage	10) Surge		
		5) Critical Under voltage	11) Phase / Line reversal		
		6) Critical Earth voltage 12) Critical Voltage harmonic			
	Audible alarm	Audible alarm for faulty operation due to triac failure for 15 sec			
	Overload Ability	110% for 30 minutes			
	Short circuit	MCCB Provision			
	Manual bypass	Toggle switch for bypass the POWEReasy			
Physical	Dimensions in mm (LXBXH)	600 X 80 X 850	600 x 80 X 1000		
	Weight	48 Kg	52 Kg		
	Input Output wire connections	Terminal Blocks for Bus Bar for R,\ R,Y,B,Neutral & Earth. Neutral & Eart			
	Designed Life	10 Years			
Obligations	Warranty	24 Months Standard			

INSTALLATION DIAGRAM





JHAVERI POWER LABS L.L.P.