with DERs and FCLs. In [3], a concept of using power electronic protections on microgrid to avoid the over-current fault was proposed. FCL isable to provideeffectiveprotection fordevicesin ...

Compared with traditional transformers, PET has some ancillary functions like reactive power compensation, fault isolation, power factor adjustment, and the advantage of small size and ...

Power sharing between different input hybrid generations with respect to the output load is the main part of the proposed converter operation in a DC micro-grid application. ...

A microgrid, essentially, is a small power distribution grid where the generations and loads are placed in closed proximity. A microgrid may contain distributed generators, like photovoltaic, ...

A new concept of solid state transformer based microgrid system is presented in this paper. By utilizing 400V DC bus generated from Gen-I solid state transformer proposed by ...

Power electronic converters are indispensable building blocks of microgrids. They are the enabling technology for many applications of microgrids, e.g., renewable energy integration, transportation electrification, energy ...

In the last years the interest towards Power Electronic Transformers (PET) is increasing. These new conversion apparatuses perform either voltage transformation or power quality functions, ...

The twelve accepted papers are grouped under three main categories viz., DC microgrid and smart grid applications, electric vehicle (EV) and motors drive applications, and power system applications. The papers ...

Owing to the intermittent output power and variable load variability of distributed generation (DG), voltage fluctuation and power mismatch tend to occur during AC/DC hybrid microgrid ...

With the rapid development of energy transition, distributed power sources are connected to the distribution grid in the form of microgrids, which is an effective method to ...

Solid state transformer (SST) is a high frequency switched power electronic based transformer with high controllability that enables flexible connectivity between existing medium voltage power distribution network, low ...

Multiport DC-DC converters based on a dual-active-bridge (DAB) topology have attracted attention due to

their high power density and bidirectional power transfer capability in ...

Modeling Of Micro-grid With Power Electronic Transformer & Its Effects On AC System Abstract: Different devices are used to connect the micro-grid with the main network. As of their ...

A robust circuit parameters design scheme is proposed for the CLLC-DCT and exhibits good power transmission and voltage regulation ability in the hybrid ac/dc microgrid even when its ...

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