Aislyn Technologies Pvt Ltd

POWER ELECTRONICS

DC-DC CONVERTERS:

1. LIMIT-CYCLE-FREE DIGITALLY CONTROLLED DC–DC CONVERTERS BASED ON DYADIC DIGITAL PWM
2. REVIEW ON ADVANCED CONTROL TECHNOLOGIES FOR BIDIRECTIONAL DC/DC CONVERTERS IN DC MICROGRIDS
3. COMPREHENSIVE CONCEPTION OF HIGH STEP-UP DC–DC CONVERTERS WITH COUPLED INDUCTOR AND VOLTAGE MULTIPLIERS TECHNIQUES
4. MINIMUM CURRENT-RIPPLE POINT TRACKING CONTROL FOR INTERLEAVED DUAL SWITCHED-INDUCTOR DC-DC CONVERTERS
5. IMPROVED HYBRID SWITCHED INDUCTOR/SWITCHED CAPACITOR DC–DC CONVERTERS
6. PRINCIPLE AND TOPOLOGY DERIVATION OF SINGLE-INDUCTOR MULTI-INPUT MULTI-OUTPUT DC-DC CONVERTERS
7. CAPACITOR AND SWITCH SIZE COMPARISONS ON HIGH-POWER MEDIUM-VOLTAGE DC-DC CONVERTERS WITH THREE-PHASE MEDIUM-FREQUENCY TRANSFORMER

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8. A NEW STRUCTURE OF BIDIRECTIONAL DC-DC CONVERTER FOR ELECTRIC VEHICLE APPLICATIONS
9. OPERATIONAL PRINCIPLES OF THREE-PHASE SINGLE ACTIVE BRIDGE DC/DC CONVERTERS UNDER DUTY CYCLE CONTROL
10. DUAL PWM CONTROL FOR HIGH STEP-DOWN DC–DC CONVERTERS
11. EFFICIENT ZVT CELL FOR INTERLEAVED DC–DC CONVERTERS
12. A NOVEL HIGH GAIN EXTENDABLE DC-DC BIDIRECTIONAL BOOST-BUCK CONVERTER
13. INHERENTLY NON-PULSATING INPUT CURRENT DC-DC CONVERTER FOR BATTERY STORAGE SYSTEMS
14. HIGH EFFICIENT HIGH VOLTAGE GAIN CAPACITOR CLAMPED DC-DC CONVERTERS AND ITS CONSTRUCTION METHOD
15. SMALL-SIGNAL MODELING AND CROSS-REGULATION SUPPRESSING FOR CURRENT-MODE CONTROLLED SINGLE-INDUCTOR DUAL-OUTPUT DC-DC CONVERTERS
16. GENERAL METHOD FOR SYNTHESIZING HIGH GAIN STEP-UP DC–DC CONVERTERS BASED ON DIFFERENTIAL CONNECTIONS

17. CONFIGURATIONS OF DC–DC CONVERTERS OF ONE INPUT AND MULTIPLE OUTPUTS WITHOUT TRANSFORMER
18. MERGED-TWO-STAGE RESONANT AND PWM SOFT-CHARGING OF HYBRID-SWITCHED-CAPACITOR DC-DC CONVERTERS
19. ENERGY-BASED STABILIZING CONTROLLERS FOR DC-DC CONVERTERS FEEDING CONSTANT POWER LOADS
20. NOVEL VOLTAGE BALANCING CONTROL STRATEGY FOR DUAL-ACTIVE-BRIDGE INPUT-SERIES-OUTPUT-PARALLEL DC-DC CONVERTERS
21. A MODIFIED Y-SOURCE DC–DC CONVERTER WITH HIGH VOLTAGE-GAINS AND LOW SWITCH STRESSES
22. A HIGH EFFICIENCY HIGH POWER-DENSITY LLC DC-DC CONVERTER FOR ELECTRIC VEHICLES (EVS) ON-BOARD LOW VOLTAGE DC-DC CONVERTER (LDC) APPLICATION
23. GENERALIZED STATE SPACE AVERAGE MODEL FOR MULTI-PHASE INTERLEAVED BUCK, BOOST AND BUCK-BOOST DC-DC CONVERTERS: TRANSIENT, STEADY-STATE AND SWITCHING DYNAMICS

24. IMPROVED MODEL-BASED PHASE-SHIFT CONTROL FOR FAST DYNAMIC RESPONSE OF DUAL ACTIVE BRIDGE DC/DC CONVERTERS
25. EFFICIENT HIGH STEP-UP OPERATION IN BOOST CONVERTERS BASED ON IMPULSE RECTIFICATION
26. STABILITY REGION BASED ROBUST CONTROLLER DESIGN FOR HIGH-GAIN BOOST DC-DC CONVERTER
27. EFFICACY OF SLIDING MODE CONTROLLER (SMC) OVER DC-DC FULL BRIDGE ISOLATED CONVERTER (FBIC)
28. DISCRETE-TIME SLIDING MODE CONTROLLED SYNCHRONOUS DC-DC BUCK CONVERTER
29. ANALYSIS AND DESIGN OF A HIGH VOLTAGE GAIN INTERLEAVED DC-DC CONVERTER WITH DUAL COUPLED INDUCTORS AND VOLTAGE MULTIPLIER CELL
30. SIMULATION OF PWM BASED SLIDING MODE CONTROLLER FOR A DC-DC BUCK CONVERTER ON FIL

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31. A NOVEL TOPOLOGY FOR AN EXTENDABLE ISOLATED DC-DC MULTI-PORT POWER CONVERTER WITH A MULTIPURPOSE HYBRID ENERGY STORAGE SYSTEM
32. CONTROL STRUCTURE FOR BIDIRECTIONAL BATTERY CHARGER INTEGRATING 3Φ PFC AC/DC AND CLLC DC/DC CONVERTERS
33. HM-BASED SMVC WITH ADAPTIVE FEEDFORWARD CONTROLLER APPLIED TO DC-DC CONVERTER
34. A DIRECT CURRENT CONTROL SCHEME WITH COMPENSATION OPERATION AND CIRCUIT-PARAMETER ESTIMATION FOR FULL-BRIDGE DC–DC CONVERTER
35. AVERAGED MODELS OF A SIX-PHASE, DUAL-INTERLEAVED DC-DC BUCK-BOOST CONVERTER WITH INTERPHASE TRANSFORMERS
36. IMPLEMENTATION AND EXPERIMENTAL EVALUATION OF AN EFFICIENCY-IMPROVED MODULATION TECHNIQUE FOR IBCI DC-DC CONVERTERS
37. VOLTAGE GAIN EXTENSION TECHNIQUES FOR HIGH STEP-UP GALVANICALLY ISOLATED DC-DC CONVERTERS

38. MULTIPORT DC–DC CONVERTER WITH STEP-UP CAPABILITY AND REDUCED VOLTAGE STRESS ON SWITCHES/DIODES
39. A NEW HIGH STEP-UP DC-DC TOPOLOGY WITH ZERO DC MAGNETIZING INDUCTANCE CURRENT AND CONTINUOUS INPUT CURRENT
40. A NON-ISOLATED HIGH GAIN DC-DC CONVERTERS WITH POSITIVE OUTPUT VOLTAGE AND REDUCED CURRENT STRESSES
41. GENERALIZED VARIABLE INTERLEAVING TECHNIQUE FOR PARALLEL CONNECTED DC-DC CONVERTERS
42. A ZVS THREE-PHASE INTERLEAVED DC-DC CONVERTER WITH SFM CONTROL METHOD FOR THE MICROGRID APPLICATIONS
43. ANALYSIS OF CONVERTERS WITH BIPOLAR OUTPUT FOR DC MICROGRID
44. TWO-STAGE DC/DC CONVERTER MODELING METHOD BASED ON HARMONIC EQUIVALENT CIRCUIT
45. BIDIRECTIONAL DC-DC CONVERTER CONTROL IN BATTERY-SUPERCAPACITOR HYBRID ENERGY STORAGE SYSTEM
46. A HIGH STEP-UP TRANSFORMER-LESS DC-DC CONVERTER WITH CONTINUOUS INPUT CURRENT

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47. THE MODULAR MULTILEVEL DC CONVERTER WITH INHERENT MINIMIZATION OF ARM CURRENT STRESSES
48. HIGH VOLTAGE GAIN DC/DC CONVERTER USING COUPLED INDUCTOR AND VM TECHNIQUES
49. FULLY SOFT SWITCHED MULTI-PORT DC-DC CONVERTER WITH HIGH INTEGRATION
50. A SIMPLE DC-DC BOOST CONVERTER WITH SOFT-SWITCHING PERFORMANCE
51. A NEW DC-DC BUCK CONVERTER WITH SOFTSWITCHING CAPABILITY
52. HYBRID T-TYPE ZVS PWM DC-DC CONVERTER
53. A NEW SINGLE-SWITCH SOFT-SWITCHED HIGH-STEP UP DC-DC CONVERTER BASED ON MAGNETIC COUPLING
54. SCALABLE MODELING APPROACH AND ROBUST HARDWARE-IN-THE-LOOP TESTING OF AN OPTIMIZED INTERLEAVED BIDIRECTIONAL HV DC/DC CONVERTER FOR ELECTRIC VEHICLE DRIVETRAINS
55. SERIES STACKED MODULAR DC–DC CONVERTER USING SIMPLE VOLTAGE BALANCING METHOD

56. A NOVEL ON-BOARD DC/DC CONVERTER CONTROLLER FEEDING UNCERTAIN CONSTANT POWER LOADS
57. A BIDIRECTIONAL DC-DC CONVERTER FED SEPARATELY EXCITED DC MOTOR ELECTRIC VEHICLE APPLICATION
58. VARIABLE-FREQUENCY CONTROLLED INTERLEAVED BOOST CONVERTER
59. SWITCHED-CAPACITOR LLC RESONANT DC-DC CONVERTER WITH SWITCH PEAK VOLTAGE OF VIN/2
60. HIGH STEP-UP NON-ISOLATED ZVS-ZCS DC–DC CÚK-BASED CONVERTER
61. MODULATION OF BIDIRECTIONAL AC/DC CONVERTERS BASED ON HALF-BRIDGE DIRECT-MATRIX STRUCTURE
62. HIGH STEP-UP DC-DC CONVERTER WITH EFFICIENT INDUCTIVE UTILIZATION
63. DESIGN FLOW OF A COMPACT HIGH-FREQUENCY DC/DC CONVERTER WITH OPTIMUM AVERAGE EFFICIENCY IN A WIDE OPERATION RANGE
64. A TOPOLOGY OF COUPLED INDUCTOR DC–DC CONVERTER WITH LARGE CONVERSION RATIO AND REDUCED VOLTAGE STRESS ON SEMICONDUCTORS

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65. SYMMETRIC DUAL-SWITCH CONVERTER
66. AN IMPROVED CONTROL STRATEGY FOR AN INNOVATIVE DC-DC CONVERTER FOR INTERFACING ENERGY STORAGE SYSTEMS
67. RECONFIGURABLE NONISOLATED DC–DC CONVERTER WITH FAULT-TOLERANT CAPABILITY
68. A SIMPLE PHASE-SHIFT MODULATION USING PARABOLIC CARRIER FOR DUAL ACTIVE BRIDGE DC-DC CONVERTER
69. MAGNETICALLY COUPLED BUCK-BOOST BIDIRECTIONAL DC-DC CONVERTER
70. ON THE DYNAMICS OF INHERENT BALANCING OF MODULAR MULTILEVEL DC–AC–DC CONVERTERS
71. LOW-VOLTAGE STRESS BUCK-BOOST CONVERTER WITH A HIGH-VOLTAGE CONVERSION GAIN DESIGN PROCEDURE OF DC-DC MULTI-PORT ACTIVE-BRIDGE CONVERTERS
72. MODEL PREDICTIVE CONTROL FOR THE RECEIVING-SIDE DC–DC CONVERTER OF DYNAMIC WIRELESS POWER TRANSFER

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73. MODULAR HIGH-POWER DC/DC CONVERTER FOR MVDC RENEWABLE ENERGY COLLECTION SYSTEMS
74. TRANSFORMER LESS UPS SYSTEM BASED ON THE HALF-BRIDGE HYBRID SWITCHED-CAPACITOR OPERATING AS AC-DC AND DC-DC CONVERTER
75. ZERO-VOLTAGE-SWITCHING ASYMMETRICAL PWM FULL-BRIDGE DC-DC CONVERTER WITH REDUCED CIRCULATING CURRENT
76. SMALL-SIGNAL MODELING OF OPEN-LOOP PWM TAPPED-INDUCTOR BUCK DC-DC CONVERTER IN CCM
77. MODULAR MULTILEVEL DC–DC POWER CONVERTER TOPOLOGY WITH INTERMEDIATE MEDIUM FREQUENCY AC STAGE FOR HVDC TAPPING
78. A TRIPLE PHASE-SHIFT BASED CONTROL METHOD FOR RMS CURRENT MINIMIZATION AND POWER SHARING CONTROL OF INPUT-SERIES OUTPUT-PARALLEL DUAL ACTIVE BRIDGE CONVERTER
79. AN EXTENDABLE QUADRATIC BIDIRECTIONAL DC-DC CONVERTER FOR V2G AND G2V APPLICATIONS
80. STATE-SPACE MODELLING OF LLC RESONANT HALF-BRIDGE DC–DC CONVERTER

81. ADAPTIVE INTERCONNECTION AND DAMPING ASSIGNMENT PASSIVITY-BASED CONTROL OF INTERLINKING CONVERTER IN HYBRID AC/DC GRIDS
82. THREE-PORT FULL-BRIDGE BIDIRECTIONAL CONVERTER FOR HYBRID DC/DC/AC SYSTEMS
83. A NON-ISOLATED BUCK-BOOST DC-DC CONVERTER WITH CONTINUOUS INPUT CURRENT FOR PHOTOVOLTAIC APPLICATIONS
84. A NOVEL INTERLEAVED PARALLEL BIDIRECTIONAL DUAL-ACTIVE-BRIDGE DC–DC CONVERTER WITH COUPLED INDUCTOR FOR MORE-ELECTRIC AIRCRAFT
85. ANALYSIS AND INVESTIGATION OF HYBRID DC–DC NON-ISOLATED AND NON-INVERTING NX INTERLEAVED MULTILEVEL BOOST CONVERTER (NX-IMBC) FOR HIGH VOLTAGE STEP-UP APPLICATIONS: HARDWARE IMPLEMENTATION
86. A MODULAR RESONANT DC-DC CONVERTER WITH HIGH STEP DOWN RATIO FOR TAPPING POWER FROM HVDC SYSTEMS

87. A SINGLE-INDUCTOR MULTIPLE-OUTPUT BUCK/BOOST DC–DC CONVERTER WITH DUTY-CYCLE AND CONTROL-CURRENT PREDICTOR
88. CURRENT-LIMITING DROOP CONTROL DESIGN AND STABILITY ANALYSIS FOR PARALLELED BOOST CONVERTERS IN DC MICROGRIDS
89. QUANTITATIVE FEEDBACK DESIGN BASED ROBUST PID CONTROL OF VOLTAGE MODE CONTROLLED DC-DC BOOST CONVERTER
90. A TRANSFORMERLESS DC-DC MODULAR MULTILEVEL CONVERTER FOR HYBRID INTERCONNECTIONS IN HVDC
91. CONVERSION EFFICIENCY OF THE BUCK THREE-LEVEL DC–DC CONVERTER IN UNBALANCED BIPOLAR DC MICROGRIDS
92. GENERALIZED SMALL-SIGNAL AVERAGED SWITCH MODEL ANALYSIS OF A WBG-BASED INTERLEAVED DC/DC BUCK CONVERTER FOR ELECTRIC VEHICLE DRIVETRAINS
93. A HIGH CONVERSION RATIO AND HIGH-EFFICIENCY BIDIRECTIONAL DC–DC CONVERTER WITH REDUCED VOLTAGE STRESS
94. HIGH STEP-UP DC–DC CONVERTER WITH ZERO VOLTAGE SWITCHING AND LOW INPUT CURRENT RIPPLE

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95. EFFICIENCY-OPTIMIZED MODULATION SCHEME FOR THREE-PHASE DUAL ACTIVE BRIDGE DC-DC CONVERTER
96. SWITCHED CAPACITOR–INDUCTOR NETWORK BASED ULTRA-GAIN DC–DC CONVERTER USING SINGLE SWITCH
97. A HIGH STEP-UP NON-ISOLATED DC-DC CONVERTER WITH FLEXIBLE VOLTAGE GAIN
98. A NOVEL THREE-LEVEL CLLC RESONANT DC-DC CONVERTER FOR BIDIRECTIONAL EV CHARGER IN DC MICROGRIDS
99. LOSSLESS SNUBBER CELL FOR A SOFT-SWITCHED BIDIRECTIONAL BUCK–BOOST CONVERTER
100. DISCONTINUOUS CONDUCTION MODE OPERATION OF THE CURRENT SHAPING MODULAR MULTILEVEL DC-DC CONVERTER
101. RESONANT LLC DC–DC CONVERTER EMPLOYING FIXED SWITCHING FREQUENCY BASED ON DUAL-TRANSFORMER WITH WIDE INPUT-VOLTAGE RANGE
102. HIGH-PERFORMANCE MEGAHERTZ-FREQUENCY RESONANT DC–DC CONVERTER FOR AUTOMOTIVE LED DRIVER APPLICATIONS

103. AN INTERLEAVED BOOST AND DUAL ACTIVE BRIDGE BASED SINGLE STAGE THREE PORT DC-DC-AC CONVERTER WITH SINE PWM MODULATION

104. CURRENT CONTROL OF THE COUPLED-INDUCTOR BUCK–BOOST DC–DC SWITCHING CONVERTER USING A MODEL PREDICTIVE CONTROL APPROACH

105. ANALYSIS OF A SYNERGETICALLY CONTROLLED TWO-STAGE THREE-PHASE DC/AC BUCK-BOOST CONVERTER

106. DESIGN AND ANALYSIS OF STEP-UP INTERLEAVED DC–DC CONVERTER FOR DIFFERENT DUTY REGIONS

107. OUTPUT-SERIES MODULAR DC–DC CONVERTER WITH SELF-VOLTAGE BALANCING FOR INTEGRATING VARIABLE ENERGY SOURCES

108. A DUAL-TRANSFORMER-BASED BIDIRECTIONAL DC–DC CONVERTER OF USING BLOCKING CAPACITOR FOR WIDE ZVS RANGE NOVEL HIGH STEP-UP SOFT-SWITCHING DC–DC CONVERTER BASED ON SWITCHED CAPACITOR AND COUPLED INDUCTOR

109. HYBRID PWM CONTROL OF BIDIRECTIONAL DC/DC RESONANT CONVERTER FOR LOW-CURRENT-RIPPLE AND WIDE-VOLTAGE-GAIN APPLICATION

110. IMPROVED BIDIRECTIONAL DC/DC CONVERTER CONFIGURATION WITH ZVS FOR ENERGY STORAGE SYSTEM: ANALYSIS AND IMPLEMENTATION

111. AN IMPROVED BOOST-BASED DC/DC CONVERTER WITH HIGH VOLTAGE STEP-UP RATIO FOR DC MICROGRIDS

112. VOLTAGE SELF-BALANCE MECHANISM BASED ON ZERO-VOLTAGE SWITCHING FOR THREE-LEVEL DC–DC CONVERTER

113. ZVZCS FULL-BRIDGE THREE-LEVEL DC/DC CONVERTER WITH REDUCED DEVICE COUNT

114. FULLY SOFT SWITCHING NON-ISOLATED QUASI Z-SOURCE DC-DC CONVERTER WITH HIGH VOLTAGE GAIN

115. FOUR SWITCH BUCK/BOOST CONVERTER TO HANDLE BIDIRECTIONAL POWER FLOW IN DC SUBGRIDS

116. AN INTEGRATED CASCADE STRUCTURE-BASED ISOLATED BIDIRECTIONAL DC–DC CONVERTER FOR BATTERY CHARGE EQUALIZATION

117. AN IMPROVED MODULATION SCHEME OF ACTIVE COMMUTATED CURRENT-FED BIDIRECTIONAL DC/DC CONVERTER

118. A NOVEL QUADRATIC HIGH STEP-UP DC-DC CONVERTER

119. A HYBRID CASCADED HIGH STEP-UP DC-DC CONVERTER WITH ULTRA-LOW VOLTAGE STRESS

120. COMPARISON OF PHASE-SHIFT AND MODIFIED GATING SCHEMES ON WORKING OF DC-DC LCL-T RESONANT POWER CONVERTER

121. VELOCITY CONTROL OF A PMSM FED BY AN INVERTERDC/DC BUCK POWER ELECTRONIC CONVERTER A NONISOLATED BIDIRECTIONAL DC–DC CONVERTER WITH HIGH VOLTAGE CONVERSION RATIO BASED ON COUPLED INDUCTOR AND SWITCHED CAPACITOR

122. A NEW DC-DC DOUBLE ZETA QUADRATIC CONVERTER

123. TRANSFORMER OVERLOADING CONTROL BY CONTROLLING THE OPERATIONAL-MODES OF HIGH-POWER CONVERTERS

124. 11.7 A VOLTAGE-TOLERANT THREE-LEVEL BUCK-BOOST DC-DC CONVERTER WITH CONTINUOUS TRANSFER CURRENT AND FLYING CAPACITOR SOFT CHARGER ACHIEVING 96.8% POWER EFFICIENCY AND 0.87μS/V DVS RATE

125. IMPROVED HIGH STEP-UP BOOST-BASED DC/DC CONVERTER WITH BUILT-IN TRANSFORMER AND ACTIVE CLAMP FOR DC MICROGRIDS

126. STEP-UP SERIES-RESONANT DC-DC CONVERTER WITH SWITCHED MODE RECTIFIER OPERATING AT FIXED SWITCHING FREQUENCY

127. A NEW STEP-UP DC/DC CONVERTER BASED ON LCCT Z-SOURCE AND SWITCHED-CAPACITOR CELL

128. MODULAR MULTILEVEL CONVERTER BASED STATCOM WITH HYBRID ENERGY STORAGE SYSTEM CONSIDERING UNBALANCED LOADING CONDITION

129. A SOFT-SWITCHING HIGH VOLTAGE GAIN DC-DC CONVERTER WITH MULTIPLIER CELLS - ANALYSIS AND AVERAGE MODEL

130. A NOVEL DECENTRALIZED ADAPTIVE DROOP CONTROL TECHNIQUE FOR DC MICROGRIDS BASED ON INTEGRATED LOAD CONDITION PROCESSING

131. TURN-OFF DELAY-CONTROLLED BIDIRECTIONAL DC–DC RESONANT CONVERTER WITH WIDE GAIN RANGE AND HIGH EFFICIENCY

132. SLIDING MODE CONTROL OF A SWITCHED RELUCTANCE MOTOR DRIVE WITH FOUR-SWITCH BI-DIRECTIONAL DCDC CONVERTER FOR TORQUE RIPPLE MINIMIZATION

133. A NOVEL HIGH GAIN SOFT SWITCHED STEP-UP DC-DC CONVERTER WITH COUPLED INDUCTORS

134. THREE-PHASE BIDIRECTIONAL BUCK-BOOST CURRENT DC-LINK EV BATTERY CHARGER FEATURING A WIDE OUTPUT VOLTAGE RANGE OF 200 TO 1000 V

135. MULTI-LEVEL DC/DC CONVERTER FOR E-MOBILITY CHARGING STATIONS

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136. A NATURAL BIDIRECTIONAL ISOLATED SINGLE-PHASE AC/DC CONVERTER WITH WIDE OUTPUT VOLTAGE RANGE FOR AGING TEST APPLICATION IN ELECTRIC VEHICLE

137. A HIGH STEP-UP DC-DC CONVERTER WITH ACTIVE SWITCHED LC-NETWORK AND VOLTAGE-LIFT CIRCUIT

138. AN IMPROVED MODE TRANSITION TECHNIQUE FOR A NON-ISOLATED BIDIRECTIONAL DC-DC CONVERTER

139. RELIABILITY ESTIMATION OF TRANSISTOR SWITCHES IN PUSH-PULL DC/DC HARD SWITCHING CONVERTER

140. A MULTI-INPUT MULTI-PHASE DC-DC CONVERTER WITH SOFT-SWITCHING CAPABILITY

141. DOUBLE BOOST-FLYBACK CONVERTER

142. ANALYSIS OF A HIGH STEP-UP "IMPROVED Γ-Z-SOURCE" DC-DC CONVERTER

143. AN IMPROVED PFC BRIDGELESS SEPIC CONVERTER FOR ELECTRIC VEHICLE CHARGER

144. A NEW SOFT SWITCHING DC–DC CONVERTER WITH HIGH VOLTAGE GAIN CAPABILITY

145. DESIGN AND ANALYSIS OF FIFTH-ORDER BUCK-BOOST CONVERTER

146. A DC/DC BUCK-BOOST CONVERTER CONTROL USING SLIDING SURFACE MODE CONTROLLER AND ADAPTIVE PID CONTROLLER

147. ADDITIONAL VOLTAGE ASSISTED HIGH GAIN DC-DC CONVERTER WITH MODIFIED ČUK CONFIGURATION

INVERTER TOPOLOGIES:

1. A MAGNETIC-LINKED MULTILEVEL ACTIVE NEUTRAL POINT CLAMPED CONVERTER WITH AN ADVANCED SWITCHING TECHNIQUE FOR GRID INTEGRATION OF SOLAR PHOTOVOLTAIC SYSTEMS
2. A SINGLE STAGE SWITCHED-CAPACITOR HEXAD BOOST MULTILEVEL INVERTER FEATURING BOOST ABILITY
3. A DEVELOPED ELEVEN-LEVEL INVERTER TOPOLOGY FOR MEDIUM-VOLTAGE APPLICATION

4. SEVEN-LEVEL SINGLE PHASE INVERTER FOR MULTISTRING PHOTOVOLTAIC APPLICATIONS
5. IMPROVED CIRCULATING CURRENT CONTROL OF MODULAR MULTILEVEL CONVERTER FOR MEDIUM VOLTAGE APPLICATIONS
6. A NEW SCHEME FOR REALIZATION OF 18-SIDED POLYGONAL VOLTAGE SPACE VECTOR STRUCTURE USING MULTILEVEL INVERTER WITH REDUCED NUMBER OF DEVICES
7. A NEW SINGLE-PHASE TRANSFORMERLESS GRID-CONNECTED INVERTER WITH BOOSTING ABILITY AND COMMON GROUND FEATURE
8. NOVEL REDUCED SOURCE SWITCHED-CAPACITOR BOOST MULTILEVEL INVERTER FOR PHOTOVOLTAIC APPLICATION
9. BIDIRECTIONAL ISOLATED CURRENT-SOURCE DAB CONVERTER WITH EXTENDED ZVS/ZCS RANGE AND REDUCED ENERGY CIRCULATION FOR STORAGE APPLICATIONS
10. A SINGLE SOURCE SWITCHED-CAPACITOR BASED MULTILEVEL INVERTER FOR PHOTOVOLTAIC APPLICATION

11. ASYMMETRICAL SINGLE-PHASE CASCADED DIFFERENTIAL MULTILEVEL INVERTER FOR PV APPLICATIONS
12. A NOVEL HIGH BOOST ACTIVE SWITCHED INDUCTOR QUASI-Z-SOURCE INVERTER FOR PV SYSTEM
13. HARDWARE-IN-LOOP IMPLEMENTATION OF SINGLE DC SOURCE PV FED GRID TIED MULTILEVEL CONVERTER
14. GENERALIZED SENSORLESS CAPACITOR VOLTAGE BALANCING TECHNIQUE FOR MODULAR MULTILEVEL CONVERTER WITH INCREASED OUTPUT VOLTAGE LEVELS
15. HYBRID MULTI-CELL SINGLE-STAGE REDUCED SWITCH MULTILEVEL INVERTER
16. TRANSFORMER LESS UPS SYSTEM BASED ON THE HALF-BRIDGE HYBRID SWITCHED-CAPACITOR OPERATING AS AC-DC AND DC-DC CONVERTER
17. A SINGLE-PHASE AC-DC-AC UNIDIRECTIONAL THREE-LEG CONVERTER

18. SINGLE-PHASE TO THREE-PHASE POWER CONVERTER WITH REDUCED DC-LINK VOLTAGE RIPPLE AND GRID CURRENT HARMONICS
19. A SINGLE CARRIER-BASED PULSE WIDTH MODULATION TECHNIQUE FOR THREE-TO-THREE PHASE INDIRECT MATRIX CONVERTER
20. MULTI BATTERY-FED NEUTRAL-POINT-CLAMPED DC–AC CONVERTER WITH SOC BALANCING CONTROL TO MAXIMIZE CAPACITY UTILIZATION
21. A BRIDGELESS AC/DC HIGH VOLTAGE GAIN CONVERTER WITH THREE-PHASE MODULAR SERIES-OUTPUT CONNECTED CONFIGURATION FOR MVDC GRID APPLICATIONS
22. A NOVEL DC-AC/DC CONVERTER WITH BOOSTED AC-DC OUTPUT VOLTAGES
23. COMPARISON OF DAB AND LLC DC-DC CONVERTERS IN HIGH-STEP-DOWN FIXED-CONVERSION-RATIO (DCX) APPLICATIONS
24. ISOLATED DC-DC BOOST CONVERTER FOR WIDE INPUT VOLTAGE RANGE AND WIDE LOAD RANGE APPLICATIONS
25. SINGLE-PHASE AC–DC–AC THREE-LEVEL THREE-LEG CONVERTER WITH REDUCED SWITCH COUNT

26. MULTILEVEL SINGLE-PHASE CONVERTER WITH TWO DC LINKS
27. A REDUCED POWER SWITCHES COUNT MULTILEVEL CONVERTER-BASED PHOTOVOLTAIC SYSTEM WITH INTEGRATED ENERGY STORAGE
28. A DUAL-ACTIVE-BRIDGE-BASED FULLY ZVS HF-ISOLATED INVERTER WITH LOW DECOUPLING CAPACITANCE
29. A NOVEL SINGLE-STAGE FIVE-LEVEL COMMON-GROUND-BOOST-TYPE ACTIVE NEUTRAL-POINT-CLAMPED (5L-CGBT-ANPC) INVERTER
30. THREE-PORT FULL-BRIDGE BIDIRECTIONAL CONVERTER FOR HYBRID DC/DC/AC SYSTEMS
31. PERFORMANCE COMPARISON OF FIVE-PHASE THREE-LEVEL NPC TO FIVE-PHASE TWO-LEVEL VSI
32. A NEW CONTROL TECHNIQUE FOR IMPROVED ACTIVE-NEUTRAL-POINT-CLAMPED (I-ANPC) MULTILEVEL CONVERTERS USING LOGIC-EQUATIONS APPROACH
33. A CLOSED-LOOP MODULATION SCHEME FOR DUTY CYCLE COMPENSATION OF PWM VOLTAGE DISTORTION AT HIGH SWITCHING FREQUENCY INVERTER

34. DESIGN OF NEW SVPWM MECHANISM FOR THREE-LEVEL NPC ZSI VIA LINE-VOLTAGE COORDINATE SYSTEM
35. A NOVEL DUAL-INPUT HIGH-GAIN TRANSFORMER LESS MULTILEVEL SINGLE-PHASE MICRO INVERTER FOR PV SYSTEMS
36. SINUSOIDALLY MODULATED AC-LINK MICRO INVERTER BASED ON DUAL-ACTIVE-BRIDGE TOPOLOGY
37. A NOVEL HIGH-PERFORMANCE PREDICTIVE CONTROL FORMULATION FOR MULTILEVEL INVERTERS
38. A BOOST SWITCHED-CAPACITOR MULTILEVEL INVERTER WITH SELF-BALANCE AND INDUCTIVE-LOAD ABILITY
39. DUAL-INPUT QUASI-Z-SOURCE PV INVERTER: DYNAMIC MODELING, DESIGN, AND CONTROL
40. A NEW HIGH GAIN MODIFIED BOOST-DERIVED HYBRID CONVERTER WITH SIMULTANEOUS DC AND AC OUTPUTS
41. NOVEL TRANSFORMERLESS BUCK–BOOST INVERTERS WITHOUT LEAKAGE CURRENT

42. HIGH-BUCK IN BUCK AND HIGH-BOOST IN BOOST DUAL-MODE INVERTER (HB2DMI)
43. SELF-BALANCED 13-LEVEL INVERTER BASED ON SWITCHED-CAPACITOR STRUCTURE AND HYBRID PWM ALGORITHM
44. BRIDGELESS CUK-DERIVED SINGLE POWER CONVERSION INVERTER WITH REACTIVE-POWER CAPABILITY
45. SWITCHING-BASED OPTIMIZED SLIDING MODE CONTROL FOR CAPACITOR SELF-VOLTAGE BALANCING OPERATION OF SEVEN-LEVEL PUC INVERTER
46. EXTENDABLE SWITCHED-CAPACITOR MULTILEVEL INVERTER WITH REDUCED NUMBER OF COMPONENTS AND SELF-BALANCING CAPACITORS
47. A NINE-LEVEL INVERTER FOR LOW-VOLTAGE APPLICATIONS
48. MULTISOURCE SWITCHED CAPACITOR BASED BOOST MULTILEVEL INVERTER FOR PHOTOVOLTAIC-BASED SYSTEMS
49. CASCADED TRANSFORMER MULTILEVEL INVERTERS WITH ASYMMETRICAL TURNS RATIOS BASED ON NPC

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50. CURRENT CONTROL OF A SEVEN-LEVEL VOLTAGE SOURCE INVERTER
51. A NOVEL SINGLE-PHASE THREE-LEVEL DUAL-BUCK INVERTER
52. A HYBRID STRING-INVERTER/RECTIFIER SOFT-SWITCHED BIDIRECTIONAL DC/DC CONVERTER
53. POWER DECOUPLING METHOD FOR SINGLE STAGE CURRENT FED FLYBACK MICRO INVERTER
54. CIRCUIT CONFIGURATION AND MODULATION OF A SEVEN-LEVEL SWITCHED-CAPACITOR MULTILEVEL INVERTER
55. A NOVEL HIGH STEP-UP SWITCHED-CAPACITOR MULTILEVEL INVERTER WITH SELF VOLTAGE BALANCING
56. ASYMMETRIC CASCADED H-BRIDGE MULTILEVEL INVERTER WITH SINGLE DC SOURCE PER PHASE
57. TOPOLOGY AND CONTROL OF A FOUR-LEVEL ANPC INVERTER
58. A NOVEL BOOST CASCADED MULTILEVEL INVERTER
59. SINGLE-PHASE SPLIT-INDUCTOR DIFFERENTIAL BOOST INVERTERS
60. SWITCHED-CAPACITOR DIFFERENTIAL BOOST INVERTER: DESIGN, MODELING, AND CONTROL

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61. A NEW TRANSFORMERLESS INVERTER WITH LEAKAGE CURRENT LIMITING AND VOLTAGE BOOSTING CAPABILITIES FOR GRID-CONNECTED PV APPLICATIONS
62. SWITCHED-CAPACITOR-BASED MULTILEVEL INVERTER FOR GRID-CONNECTED PHOTOVOLTAIC APPLICATION
63. A TWO-STAGE T-TYPE HYBRID FIVE-LEVEL TRANSFORMER LESS INVERTER FOR PV APPLICATIONS
64. LADDER-SWITCH BASED MULTILEVEL INVERTER WITH REDUCED DEVICES COUNT
65. A NEW FIVE-LEVEL VOLTAGE SOURCE INVERTER: MODULATION AND CONTROL
66. ANALYSIS AND DESIGN OF A NOVEL SIX-SWITCH FIVE-LEVEL ACTIVE BOOST NEUTRAL POINT CLAMPED INVERTER
67. A NOVEL THREE-PHASE DUAL-OUTPUT NEUTRAL-POINT-CLAMPED THREE-LEVEL INVERTER
68. INTEGRATION OF BOOST-TYPE ACTIVE POWER DECOUPLING TOPOLOGY WITH SINGLE-PHASE SWITCHED BOOST INVERTER

69. A COMMON GROUNDED TYPE DUAL MODE FIVE-LEVEL TRANSFORMERLESS INVERTER FOR PHOTOVOLTAIC APPLICATIONS
70. A NEW FAMILY OF 1-Φ FIVE-LEVEL TRANSFORMERLESS INVERTERS FOR SOLAR PV APPLICATIONS
71. A NOVEL BOOST SWITCHED-CAPACITOR BASED MULTI-LEVEL INVERTER STRUCTURE
72. ACTIVE VOLTAGE-BALANCING AND THERMAL PERFORMANCE ANALYSIS OF DUAL FLYING-CAPACITOR ACTIVE NEUTRAL-POINT-CLAMPED (DFC-ANPC) INVERTERS
73. NOVEL ACTIVE-NEUTRAL-POINT-CLAMPED INVERTERS WITH IMPROVED VOLTAGE-BOOSTING CAPABILITY
74. TOPOLOGY AND CONTROL OF FOUR-QUADRANT DUAL-DC-PORT DUAL-BUCK INVERTERS FOR SEMI-TWO-STAGE DC-AC POWER CONVERSION
75. SINGLE PHASE STEP-UP SWITCHED-CAPACITOR BASED MULTILEVEL INVERTER TOPOLOGY WITH SHEPWM

76. A NEW REDUCED SWITCH MULTILEVEL INVERTER FOR PV APPLICATIONS
77. SERIES-CONNECTED CURRENT SOURCE INVERTERS WITH LESS SWITCHES
78. DESIGN AND IMPLEMENTATION OF NEW MULTILEVEL INVERTER TOPOLOGY FOR TRINARY SEQUENCE USING UNIPOLAR PULSEWIDTH MODULATION
79. A SINGLE SOURCE TRANSFORMER-LESS BOOST MULTILEVEL INVERTER TOPOLOGY WITH SELF-VOLTAGE BALANCING
80. DUAL-T-TYPE FIVE-LEVEL CASCADED MULTILEVEL INVERTER WITH DOUBLE VOLTAGE BOOSTING GAIN

RENEWABLE ENERGY SOURCES:

1. REACTIVE POWER OPTIMIZATION CONTROL FOR BIDIRECTIONAL DUAL-TANK RESONANT DC–DC CONVERTERS FOR FUEL CELLS SYSTEMS

2. EXTENDED STATE OBSERVER-BASED CONTROL OF DC–DC CONVERTERS FOR FUEL CELL APPLICATION
3. A NEW HIGH GAIN DC-DC CONVERTER WITH MODEL PREDICTIVE-CONTROL BASED MPPT TECHNIQUE FOR PHOTOVOLTAIC SYSTEMS
4. NEW SEMIQUADRATIC HIGH STEP-UP DC/DC CONVERTER FOR RENEWABLE ENERGY APPLICATIONS
5. NON-ISOLATED HIGH-GAIN TRIPLE PORT DC–DC BUCK-BOOST CONVERTER WITH POSITIVE OUTPUT VOLTAGE FOR PHOTOVOLTAIC APPLICATIONS
6. A MODIFIED DOUBLE INPUT Z-SOURCE DC-DC CONVERTER FOR STANDALONE PV/BATTERY SYSTEM APPLICATION
7. SYNTHESIS OF THREE-PORT CONVERTER FROM EXISTING DC-DC CONVERTERS FOR PV BASED DC STAND-ALONE SYSTEM
8. A HIGH STEP-UP INTERLEAVED DC-DC CONVERTER WITH VOLTAGE MULTIPLIER AND COUPLED INDUCTORS FOR RENEWABLE ENERGY SYSTEMS

9. A MULTIPORT DC–DC CONVERTER BASED ON TWO-QUADRANT INVERTER TOPOLOGY FOR PV SYSTEMS
10. THE DESIGN AND ANALYSIS OF LARGE SOLAR PV FARM CONFIGURATIONS WITH DC CONNECTED BATTERY SYSTEMS
11. A NOVEL HIGH-GAIN DC-DC CONVERTER APPLIED IN FUEL CELL VEHICLES
12. THREE-PORT DC–DC CONVERTER BASED ON QUADRATIC BOOST CONVERTER FOR STAND-ALONE PV/BATTERY SYSTEMS
13. A HIGH VOLTAGE GAIN DC–DC CONVERTER WITH COMMON GROUNDING FOR FUEL CELL VEHICLE
14. ACTIVE BRIDGES BASED BIDIRECTIONAL DC-DC CONVERTER FOR SOLAR PV APPLICATION
15. A NEW NON-ISOLATED HIGH GAIN DC-DC CONVERTER FOR GRID-CONNECTED PHOTOVOLTAIC SYSTEMS
16. REVIEW OF ARCHITECTURES BASED ON PARTIAL POWER PROCESSING FOR DC-DC APPLICATIONS

17. ASYMMETRICAL MULTI-LEVEL DC-LINK INVERTER FOR PV ENERGY SYSTEM WITH PERTURB AND OBSERVE BASED VOLTAGE REGULATOR AND CAPACITOR COMPENSATOR
18. A NOVEL TRANSFORMER LESS HIGH GAIN DC-DC CONVERTER WITH CONTINUOUS INPUT CURRENT AND SUITABLE FOR PHOTO VOLTAIC PANELS
19. CONTROL OF A DC/DC CONVERTER ATTACHED TO AN ASYMMETRIC MULTILEVEL INVERTER FOR SOLAR ENERGY INJECTION TO MICROGRIDS
20. ROBUST ADAPTIVE DIRECT POWER CONTROL OF GRID-CONNECTED PHOTOVOLTAIC SYSTEMS
21. IMPLEMENTATION OF SOLAR PV-BATTERY AND DIESEL GENERATOR BASED ELECTRIC VEHICLE CHARGING STATION
22. GRID CONNECTED THREE-LEVEL VSI BASED SMART SOLAR INVERTER USING ONLINE SPACE VECTOR BASED HYSTERESIS CURRENT CONTROL

23. MULTIMODE OPERATION OF SOLAR PV ARRAY, GRID, BATTERY AND DIESEL GENERATOR SET BASED EV CHARGING STATION
24. MAXIMUM POWER POINT TRACKING FOR PHOTOVOLTAIC-FED MULTI-SOURCE SWITCHED CAPACITOR BASED MULTILEVEL INVERTER
25. COORDINATED FREQUENCY CONTROLLER OPERATION FOR DFIG BASED WIND TURBINE GENERATOR CONTROL USING COMBINATION SELECTION SCHEME
26. IMPROVED H-BRIDGE MULTILEVEL INVERTER FOR GRID INTEGRATION OF PHOTOVOLTAIC POWER CONVERSION SYSTEM WITH POWER QUALITY ENHANCEMENT
27. A MODIFIED CONTROL METHOD FOR GRID CONNECTED MULTIPLE ROOFTOP SOLAR POWER PLANTS
28. A NEW STEP-UP TRANSFORMER LESS INVERTER TOPOLOGY FOR 1-ϕ GRID-CONNECTED SOLAR PHOTOVOLTAIC SYSTEM
29. SYNTHESIS OF THREE-PORT CONVERTER FROM EXISTING DC-DC CONVERTERS FOR PV BASED DC STAND-ALONE SYSTEM

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30. PERFORMANCE IMPROVEMENT OF PV ARRAY BY MINIMIZING CIRCULATING CURRENT THROUGH MODIFIED BYPASS ARRANGEMENT IN PARTIAL SHADED CONDITION
31. MAXIMUM POWER POINT TRACKING IN PV SYSTEMS USING PLANT REPRODUCTION ALGORITHM
32. CMPN ADAPTIVE CONTROL ALGORITHM FOR DOUBLE STAGE PV-GRID CONNECTED SYSTEM
33. A NOVEL NON-ISOLATED THREE PORT DC-DC CONVERTER FOR PHOTOVOLTAIC APPLICATIONS
34. MPP ESTIMATION OF A DDM PV MODULE USING EXPLICIT I-V EXPRESSION
35. THREE-SWITCH-BASED INTEGRATED DUAL-DC BOOST CONVERTER TOPOLOGY FOR SOLAR-BATTERY INTEGRATION
36. A FOUR-PORT DC–DC CONVERTER FOR A STANDALONE WIND AND SOLAR ENERGY SYSTEM

37. A TRANSFORMERLESS PHOTOVOLTAIC MICROINVERTER USING HIGH-GAIN Z-SOURCE BOOST CONVERTER FOR SINGLE-PHASE GRID CONNECTED APPLICATIONS
38. NOVEL SOFT-SWITCHING INTERLEAVED BOOST CONVERTERS FOR RENEWABLE ENERGY CONVERSION SYSTEMS
39. A NEW SOFT-SWITCHED THREE-PORT DC/DC CONVERTER WITH HIGH VOLTAGE GAIN AND REDUCED NUMBER OF SEMICONDUCTORS FOR HYBRID ENERGY APPLICATIONS
40. DESIGN AND CONTROL OF A MODULAR POWER ELECTRONIC BACK-TO-BACK CONVERTER FOR WAVE ENERGY HARVESTING APPLICATIONS
41. LVRT CAPABILITY EVALUATION OF DFIG BASED WIND ENERGY CONVERSION SYSTEM UNDER TYPE-A AND TYPE-C GRID VOLTAGE SAGS
42. INTEGRATION OF SOLAR PV-WECS AND DG SET FOR EV CHARGING STATION

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43. COUPLED INDUCTOR BASED HIGH GAIN ZVS DC–DC CONVERTER FOR RENEWABLE ENERGY SYSTEMS
44. SENSOR-LESS VECTOR CONTROL OF DFIG BASED MICRO WIND ENERGY CONVERSION SYSTEM
45. PV FED CURRENT CONTROLLED LOW STRESS HIGH GAIN CONVERTER FOR BATTERY CHARGING APPLICATIONS
46. THREE-PHASE FIVE-LEVEL GRID SYNCHRONIZED PV INVERTER WITH MPPT FOR MICRO-GRID APPLICATION
47. PERFORMANCE AND ANALYSIS OF A NEW BRUSHLESS SYNCHRONOUS GENERATOR FOR DC MICRO GRID APPLICATION

Aislyn Technologies Pvt Ltd

FOR MORE DETAILS

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