



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

Corporate Office: #1688, 21st Main, 18th cross, M.C. Layout (Behind Maruthi
Mandir), Vijayanagar, Bangalore-560040

Phone: 080-41262727
Mobile: +91 9739594609

E-mail: info@aislyntech.com
Web: www.aislyntech.com

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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

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- 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

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- 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 3 Φ 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

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38. MULTI-PORT 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

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- 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 $V_{IN}/2$
- 60.HIGH STEP-UP NON-ISOLATED ZVS-ZCS DC-DC CUK-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

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Web: www.aislyntech.com

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- 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

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Mobile:+91 9739594609

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Web:www.aislyntech.com



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- 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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Mobile:+91 9739594609

E-mail:info@aislyntech.com
Web:www.aislyntech.com



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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

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Mobile: +91 9739594609

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Web: www.aislyntech.com

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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

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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

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Web: www.aislyntech.com

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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

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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 0.87 μ S/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

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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

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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

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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

Corporate Office: #1688, 21st Main, 18th cross, M.C. Layout (Behind Maruthi Mandir), Vijayanagar, Bangalore-560040

Phone: 080-41262727
Mobile: +91 9739594609

E-mail: info@aislyntech.com
Web: www.aislyntech.com

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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

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Phone: 080-41262727
Mobile: +91 9739594609

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Web: www.aislyntech.com

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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

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Phone: 080-41262727
Mobile: +91 9739594609

E-mail: info@aislyntech.com
Web: www.aislyntech.com

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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

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Phone: 080-41262727
Mobile: +91 9739594609

E-mail: info@aislyntech.com
Web: www.aislyntech.com

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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

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Phone: 080-41262727
Mobile: +91 9739594609

E-mail: info@aislyntech.com
Web: www.aislyntech.com

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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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Mandir), Vijayanagar, Bangalore-560040

Phone: 080-41262727
Mobile: +91 9739594609

E-mail: info@aislyntech.com
Web: www.aislyntech.com

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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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Mandir), Vijayanagar, Bangalore-560040

Phone: 080-41262727
Mobile: +91 9739594609

E-mail: info@aislyntech.com
Web: www.aislyntech.com

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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

Corporate Office: #1688, 21st Main, 18th cross, M.C. Layout (Behind Maruthi Mandir), Vijayanagar, Bangalore-560040

Phone: 080-41262727
Mobile: +91 9739594609

E-mail: info@aislyntech.com
Web: www.aislyntech.com

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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

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Phone: 080-41262727
Mobile: +91 9739594609

E-mail: info@aislyntech.com
Web: www.aislyntech.com



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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

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Phone: 080-41262727
Mobile: +91 9739594609

E-mail: info@aislyntech.com
Web: www.aislyntech.com

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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

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Mandir), Vijayanagar, Bangalore-560040

Phone: 080-41262727
Mobile: +91 9739594609

E-mail: info@aislyntech.com
Web: www.aislyntech.com

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9. A MULTI-PORT 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

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Phone: 080-41262727
Mobile: +91 9739594609

E-mail: info@aislyntech.com
Web: www.aislyntech.com

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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 PHOTOVOLTAIC 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

Corporate Office: #1688, 21st Main, 18th cross, M.C. Layout (Behind Maruthi Mandir), Vijayanagar, Bangalore-560040

Phone: 080-41262727
Mobile: +91 9739594609

E-mail: info@aislyntech.com
Web: www.aislyntech.com



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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

Corporate Office: #1688, 21st Main, 18th cross, M.C. Layout (Behind Maruthi Mandir), Vijayanagar, Bangalore-560040

Phone: 080-41262727
Mobile: +91 9739594609

E-mail: info@aislyntech.com
Web: www.aislyntech.com



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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

Corporate Office: #1688, 21st Main, 18th cross, M.C. Layout (Behind Maruthi Mandir), Vijayanagar, Bangalore-560040

Phone: 080-41262727
Mobile: +91 9739594609

E-mail: info@aislyntech.com
Web: www.aislyntech.com

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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

Corporate Office: #1688, 21st Main, 18th cross, M.C. Layout (Behind Maruthi Mandir), Vijayanagar, Bangalore-560040

Phone: 080-41262727
Mobile: +91 9739594609

E-mail: info@aislyntech.com
Web: www.aislyntech.com



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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

Corporate Office: #1688, 21st Main, 18th cross, M.C. Layout (Behind Maruthi
Mandir), Vijayanagar, Bangalore-560040

Phone: 080-41262727
Mobile: +91 9739594609

E-mail: info@aislyntech.com
Web: www.aislyntech.com



Aislyn Technologies Pvt Ltd

FOR MORE DETAILS

CONTACT

AISLYN TECHNOLOGIES PVT LTD

NO.1688, 21ST MAIN, 18TH CROSS, M.C LAYOUT, BEHOND

MARUTHI MANDIRA, VIJAYNAGAR BANGALORE-560040

EMAIL- INFO@AISLYNTECH.COM

WEBSITE: WWW.AISLYNTECH.COM

OFFICE HOURS: 9.30 AM TO 6.30 PM

(MONDAY TO SATURDAY)

PH: 080-41262727

MOBILE: 9739594609 ()

Corporate Office: #1688, 21st Main, 18th cross, M.C. Layout (Behind Maruthi Mandir), Vijayanagar, Bangalore-560040

Phone: 080-41262727
Mobile: +91 9739594609

E-mail: info@aislyntech.com
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Corporate Office: #1688, 21st Main, 18th cross, M.C. Layout (Behind Maruthi Mandir), Vijayanagar, Bangalore-560040

Phone: 080-41262727
Mobile: +91 9739594609

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Web: www.aislyntech.com