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ANMD-MRS8-072

SOLAR INVERTERS

A Global Sustainability Due Diligence and Market Research Study

Shortened Table of Contents

Market Snapshot

US$ 21,300.0m 2025A market value	**US$ 19,925.6m** 2026E market value	**US$ 35,340.0m** 2032F market value	**7.5%** CAGR 2025A to 2032F
7 regions Geographic coverage	**26 modules** Country modules	**1,434 exhibits** Including 363 charts	**219 + 109** Organizations and patent records
2020–2032 Historical data and forecasts		**Global** Regional and country coverage	

Report Facts

Report Attribute	Coverage
Report code	ANMD-MRS8-072 | Advanced Solar & Wind Technologies
Published	September 2026
Study periods	History 2020H to 2024H | Actual 2025A | Estimate 2026E | Forecast 2027F to 2032F
Length	870 pages | 34 chapters | 7 appendices | 1,434 exhibits including 363 charts
Geography	7 regions | 26 country modules | 7 residual regional groupings
Segmentation	4 product types (string, central, microinverters, hybrid / storage) plus power class, application, end user, business model and scale
Directories	219 organizations based in 25 countries and territories | 109 patent records in 8 jurisdictions
Licences	Single-User License (SUL) | Global Corporate License (GCL)

This shortened table of contents presents the chapter architecture, main sections and selected exhibits. The detailed table of contents and sample pages are available to registered users at www.anewmarketdynamics.com.

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Part I

Study Framework, Executive Brief and Global Market

Study conventions, headline market findings, methodology and the global and regional analytical foundation.

No.	Chapter, Main Sections and Selected Exhibits	Exhibits	Page
F	**Foreword** Purpose of the study • Market boundary • Coverage and structure • Intended readers		i
1	**About This Report** Methodology and quality control • Report organization and reader's guide • Reporting conventions • Scope, inclusion and exclusion rules • Asset boundary, units and evidence standards • Overlays and double-count controls **Selected exhibits** *Exhibit 1: Top-down and Bottom-up Market Reconciliation, 2024H–2026E | Exhibit 6: Scope, Inclusion and Exclusion Rules*	12 2 charts	1
2	**Executive Market Brief** Key market developments • Market in brief • Market outlook in five statements • Regional and country market outlook • Policy and classification environment • Key findings, risks and indicators to track **Selected exhibits** *Exhibit 14: Global Solar Inverter Market in Brief, 2024H–2032F | Exhibit 19: Policy and Classification Environment in Brief*	13 4 charts	11
3	**Executive Summary and Market Metrics Dashboard** What changed this year • What the market is worth and why • Regional and country opportunity ranking • Policy and classification outlook • Risk concentration • Observed deployment outcome patterns • KPI dashboard **Selected exhibits** *Exhibit 26: What Changed, 2024H–2026E | Exhibit 41: Solar Inverter KPI Dashboard with Ranges*	17 8 charts	21
4	**Global Market — Dynamics, Size and Outlook** Industry background and participant map • Market drivers and restraints • Opportunities and strategic frameworks • Global market size and forecast • Market model conversion logic • Configuration families and deployment pathways **Selected exhibits** *Exhibit 43: Functional Stages of a Grid-connected Solar Inverter | Exhibit 47: Configuration Families — Power Range, Voltage, MPPT and Application Logic*	60 18 charts	33
5	**Regional Markets — Seven-region Overview** Regional dashboard • Regional value and share comparison • Regional demand character • Regional opportunity ranking • Demand, manufacturing, pipeline, permitting and policy map **Selected exhibits** *Exhibit 103: Regional Market Indicator Dashboard, 2025A, 2026E and 2032F | Exhibit 117: Regional Demand Character, 2026E*	23 10 charts	73
6	**How to Read the Country Modules** Module structure and conventions • Full-format and consolidated modules • Data bases and rounding • Country-module requirements **Selected exhibits** *Exhibit 126: Structure of a Full-format Country Module | Exhibit 128: Country-depth Register — Modules, Tiers and 2026E Value*	9 2 charts	85

Part II

Regional, Country, Segmentation and Demand Analysis

Seven-region coverage, 26 country modules and the market series used to compare value, shipments and demand.

No.	Chapter, Main Sections and Selected Exhibits	Exhibits	Page
7	**North America — Regional Analysis and Country Modules** United States • Canada • Mexico • Rest of North America • Country comparison **Highlights** *Value, shipment and product-type series for each country | Policy, grid-code and program matrices for the United States, Canada and Mexico*	87 21 charts	91
8	**Europe — Regional Analysis and Country Modules** Germany • Spain • Italy • Austria • France • Turkey • Rest of Europe • Country comparison **Highlights** *Value, shipment and product-type series for six countries | Grid-code, cybersecurity and supply-security register*	157 36 charts	135
9	**Asia Pacific — Regional Analysis and Country Modules** China • India • Japan • South Korea • Australia • Southeast Asia • Rest of Asia Pacific • Country comparison **Highlights** *Value, shipment and product-type series for six country modules | Document 136, PM Surya Ghar and Cheaper Home Batteries program readings*	156 36 charts	214

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No.	Chapter, Main Sections and Selected Exhibits	Exhibits	Page
10	**Latin America — Regional Analysis and Country Modules** Brazil • Chile • Colombia • Argentina • Rest of Latin America • Country comparison **Highlights** *Value, shipment and product-type series for four countries | Distributed-generation tariff reform and curtailment readings*	110 26 charts	**294**
11	**Africa — Regional Analysis and Country Modules** South Africa • Egypt • Morocco • Nigeria • Rest of Africa • Country comparison **Highlights** *Value, shipment and product-type series for four countries | Grid reliability, embedded-generation and energy-access readings*	110 26 charts	**343**
12	**Middle East — Regional Analysis and Country Modules** Saudi Arabia • United Arab Emirates • Israel • Rest of Middle East • Country comparison **Highlights** *Value, shipment and product-type series for three countries | Gigascale solar and storage procurement in Saudi Arabia and the United Arab Emirates*	87 21 charts	**395**
13	**Rest of World — Regional Analysis and Country Modules** Regional overview • Composition and market character • Value and outlook **Selected exhibits** *Exhibit 852: Rest of World — Composition and Market Character | Exhibit 854: Rest of World — Policy and Procurement Instruments*	15 4 charts	**437**
14	**Global Market Reporting — Master Series and Reference Tables** Global master series • Regional master series • Country reference tables **Selected exhibits** *Exhibit 858: Global Market Value by Product Type, Panel A: 2020H–2026E (US$ Million) | Exhibit 860: Global — Shipments, Installed Base and Pricing, Panel A: 2020H–2026E (GWac and US$ per kWac)*	38 13 charts	**445**
15	**Global Segmentation Analysis** Product-type segmentation • Power class, application, end user, business model and scale • Non-additive overlay axes • Full annual segment series • Cross-tabulation and additivity rules **Selected exhibits** *Exhibit 895: Global Market Value by Product Type, Panel A: 2020H–2026E (US$ Million) | Exhibit 953: Additivity Rules for the Segmentation Model*	67 18 charts	**461**
16	**Demand Signals and Forward Indicators** Structural demand signals • Grid-forming mandates and Gulf gigascale rounds • Economic and adoption signals • Indicator dashboard • Leading indicators **Selected exhibits** *Exhibit 966: Grid-forming Requirements and Procurement Rules, Status September 2026 | Exhibit 967: Gulf Gigascale Solar and Storage Pipeline, Status September 2026*	13 5 charts	**490**
17	**Adjacent-market Enablers** Adjacent enabler structure and interfaces • Enabling infrastructure and platforms • Financing and service enablers • Component, grid, storage and O&M interfaces **Selected exhibits** *Exhibit 975: Adjacent Hardware Enablers and Their Interfaces with Solar Inverters | Exhibit 984: Solar Inverter Interface Matrix*	10 4 charts	**499**

Part III

Competition, Engineering, Innovation, Sustainability and Policy

Competitive structure and company profiles alongside inverter engineering, research funding, sustainability due diligence, supply chains and policy.

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18	**Competitive Analysis and Company Profiles** Market shares and concentration reading • Company profiles by region • Component, technology and specialist participants • Distribution, service and delivery organizations • Value-chain coverage **Selected exhibits** *Exhibit 985: Reported Revenue of Listed Inverter Participants, as Reported (Local Currency) | Exhibit 1017: Testing, Certification and Technical Advisory Bodies*	35 2 charts	**506**
19	**Competitive Environment — Structure, Rankings and Matrices** Market structure and concentration • Participant presence and capability rankings • Capability matrices • Competitive outlook • Localization and supply-security benchmark **Selected exhibits** *Exhibit 1024: ANMD Capability Scores, Twenty Inverter Manufacturers (Score 1–5 per Criterion, Maximum 30) | Exhibit 1028: Product-type Coverage Matrix, Twenty Manufacturers*	19 6 charts	**562**
20	**Mergers, Acquisitions, Partnerships and Industry Network Analysis** M&A record • Partnership and alliance patterns • Industry network reading • Joint-venture, OEM, supply and localization network map **Selected exhibits** *Exhibit 1039: M&A and Corporate-action Record Affecting Solar Inverters, 2013–2025 | Exhibit 1046: Contract Manufacturing and Localization Partnerships*	15 5 charts	**576**

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22	**Research, Innovation and Funding Environment** Public research programs • Startup and venture activity • Standards and testing infrastructure • R&D and public funding pipeline **Selected exhibits** *Exhibit 1110: Grid-forming Research and Test Initiatives, 2021–2026 | Exhibit 1111: Startup and Venture Activity Relevant to Inverters, 2021–2026*	17 3 charts	619
23	**Sustainability Due Diligence, ESG, SDG and Climate Analysis** Carbon and embodied materials • Water, resources, biodiversity and circularity • Rights, cybersecurity and data rights • Double materiality and ESG framework alignment • SDG contribution mapping • Climate risk, anti-greenwashing and claim assurance **Selected exhibits** *Exhibit 1144: SDG Contribution Map for Solar Inverters | Exhibit 1150: Anti-greenwashing Screen for Common Inverter Claims*	123 24 charts	629
24	**Value Chain, Supply Chain and Geopolitical Analysis** Value-chain map • Material inputs • Components and electronics • Manufacturing and delivery footprints • Trade measures and localization • Logistics and delivery capacity **Selected exhibits** *Exhibit 1246: Solar Inverter Value-Chain Map — Stages, Participants and Concentration | Exhibit 1252: Power Semiconductor Supply Base for Solar Inverters*	19 5 charts	711
25	**Policy, Regulation, Legal Structures and Integrated Risk** Grid-regulatory frameworks • Program architecture by jurisdiction • Standards and certification • Legal structures for delivery • Integrated policy risk reading • Safety, cybersecurity and interconnection obligations **Selected exhibits** *Exhibit 1265: Grid-code and Interconnection Frameworks by Jurisdiction | Exhibit 1275: Standards and Certification Families for Solar Inverters*	21 5 charts	725

Part IV

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26	**Scenario Analysis and Observed Outcome Patterns** Methodology • Market paths to 2032 • Observed outcome patterns • Long-term outlook ranges • Outcome benchmark **Selected exhibits** *Exhibit 1299: SMA Grid-forming Deployments and Certification Milestones | Exhibit 1304: Deployment Archetype Benchmark — Typical Attributes*	22 6 charts	739
27	**Strategic SWOT and TOWS Analysis** Market-level SWOT • SWOT by participant class • TOWS strategic options • Value pools behind the options **Selected exhibits** *Exhibit 1309: Opportunity Geography — Regional Value, Share and CAGR, 2025A–2032F (US$ Million) | Exhibit 1315: Value Pools Addressed by TOWS Options, 2025A and 2032F (US$ Million)*	9 3 charts	752
28	**Risk Factors Identified** Integrated risk register • Likelihood-and-impact reading • Mitigants and watch indicators **Selected exhibits** *Exhibit 1320: Likelihood-and-Impact Scores, Ranked (Scale 1–5, Score 1–25) | Exhibit 1326: Watch Indicators With Stable, Watch and Trigger Bands*	10 3 charts	758
29	**Observed Implementation Patterns by Stakeholder** Manufacturers and providers • Distributors, integrators and installers • End users and buyer organizations • Governments and programs • Financiers and insurers • Implementation responsibilities **Selected exhibits** *Exhibit 1327: Manufacturer Implementation Patterns, 2024–2026 | Exhibit 1335: Government Instruments Shaping Inverter Implementation*	14 5 charts	766
30	**Community Engagement and Social Inclusion** Access and inclusion models • Gender and labor dimensions • Benefit-sharing patterns • Social and environmental outcomes **Selected exhibits** *Exhibit 1341: Access and Inclusion Models Using Solar Inverters | Exhibit 1346: Worker-safety Hazards and Controls in Inverter Installation and Service*	11 2 charts	774

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32	**Outlook Synthesis** Where value concentrates to 2032 • What could change the path • Threshold-event indicators **Selected exhibits** *Exhibit 1376: Absolute Value Added by Product Type, 2025A–2032F (US$ Million) | Exhibit 1385: Threshold-event Indicator Register, Readings at September 2026*	12 5 charts	794
33	**Key Performance Indicators** Market KPIs • Sustainability KPIs • Delivery KPIs • Conversion, grid and commercial KPI library **Selected exhibits** *Exhibit 1386: Market KPI Library with Ledger Reference Values, 2025A, 2026E and 2032F | Exhibit 1394: Conversion and Grid-performance KPI Library*	13 5 charts	801
34	**Company and Patent Directories — Overview** Directory method and coverage • Patent register method and coverage • Directory fields and evidence register **Selected exhibits** *Exhibit 1399: Corporate Directory Coverage by Role Family and Region (Number of Organizations) | Exhibit 1403: Patent Register by Headline Product Segment (Number of Records)*	17 7 charts	809

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