

Preen Product Introduction & Applications

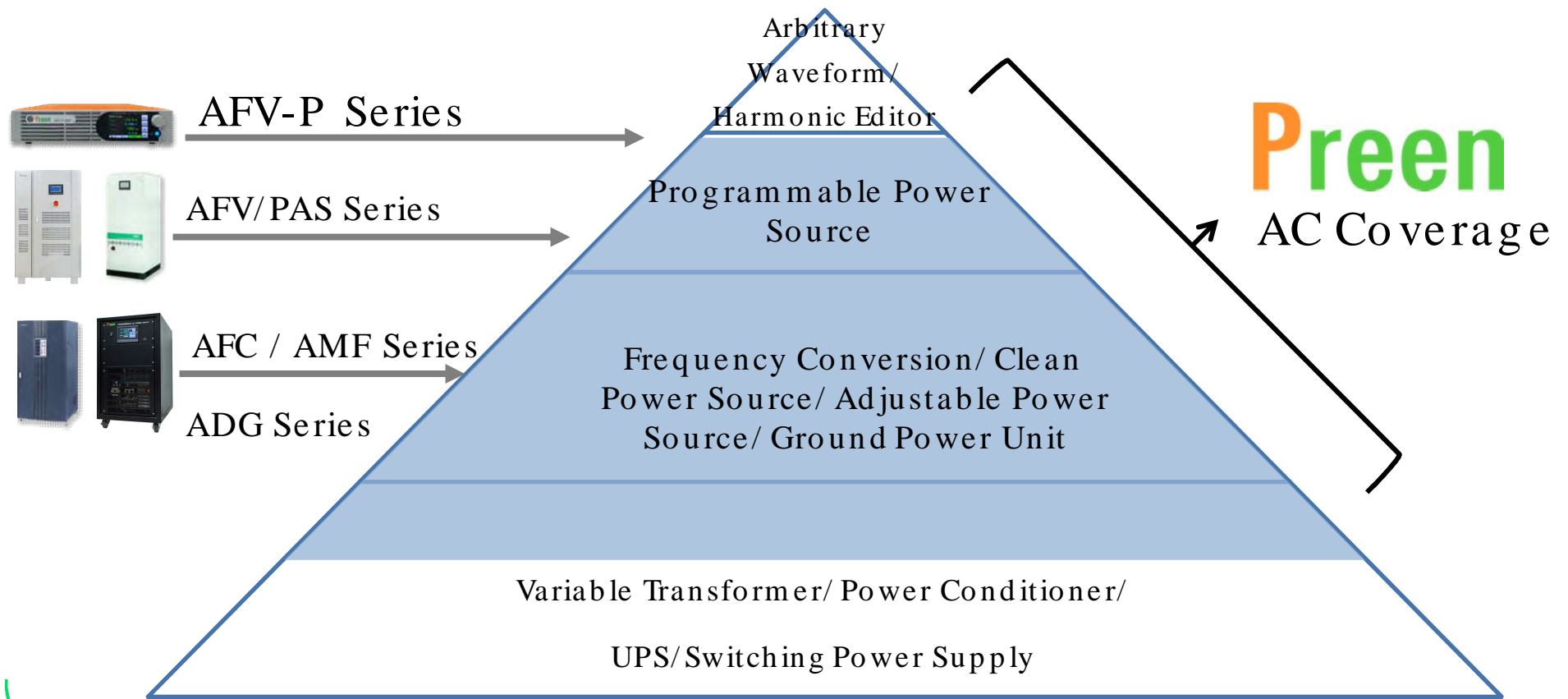
AC Power Corp.

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AC + DC
Power Solutions

AFV-P Product Marketing Position

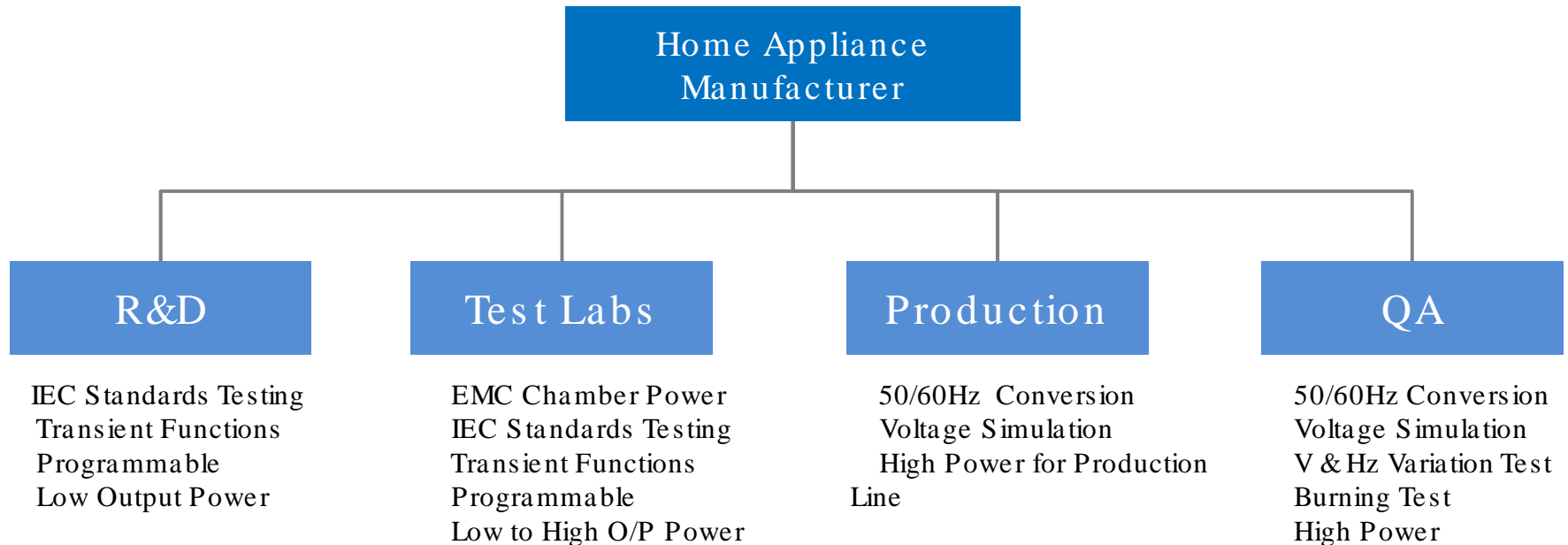


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Preen Market Position for Power Supply

Application Examples :



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Other Product Series: BEST PRICE PROGRAMMABLE AC or DC POWER SUPPLIES

Supported Remote Interfaces:
USB / RS-232 / Ethernet / GPIB / RS-485

Regenerative
Grid Simulator

For more details, please visit:
www.PreenPower.com

up to
2000 kVA

up to
2000Vdc



AFV-P series



AFV series



PAS-F series



ADG-P series



ADG-L series

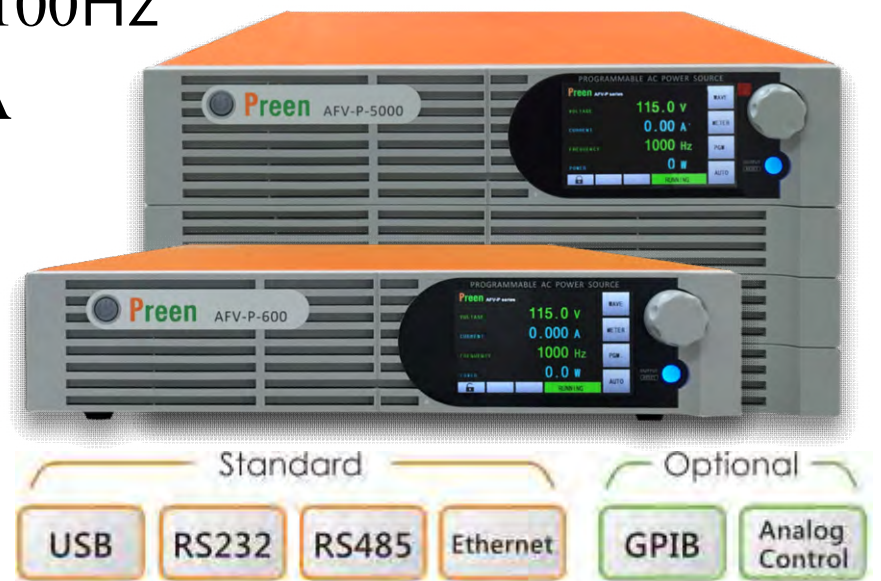
AC Power Source

DC Power Supply

AFV-P Series

Rack Mount Programmable AC Power Source

- 5" Intuitive Touch Screen Control
- 0-310V, 15-1000Hz AC output
- With 0-210V/ 0-420VDC Output
- Transient Test (Surge, Sag, Spike Dropout)
- IEC-61000-4-11 Pre-compliance Test
- THD < 0.3% when output is < 100Hz
- Made in Taiwan, Stock in USA
- 2 Years Warranty

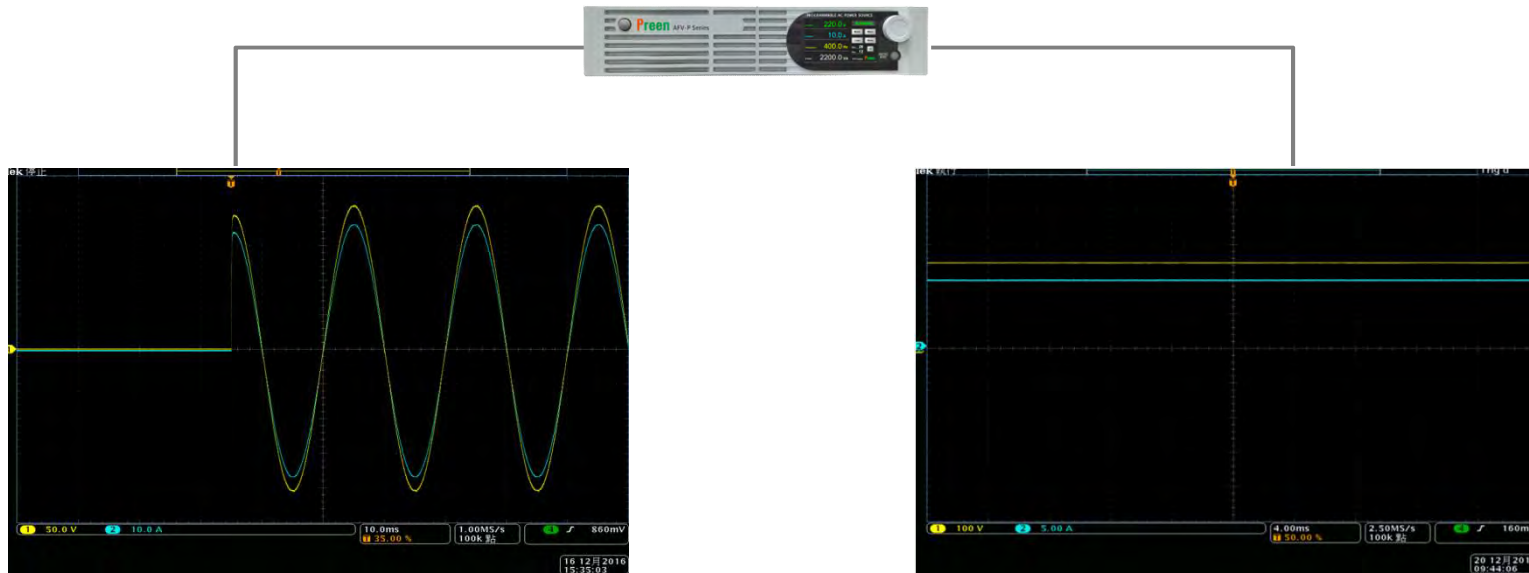


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AFV-P Series Features

1. AC & DC Output

- Can be configured as AC or DC output mode for testing AC or DC DUT



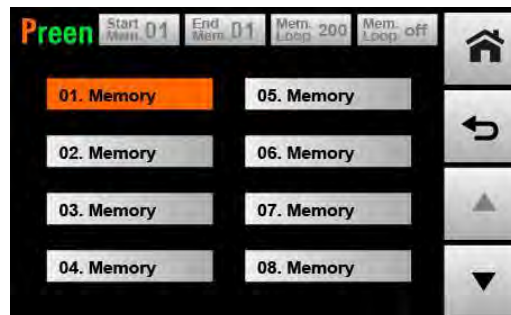
AC : AC Output

DC : DC output

AFV-P Series Features

2. 5" Touch Screen, Friendly HMI

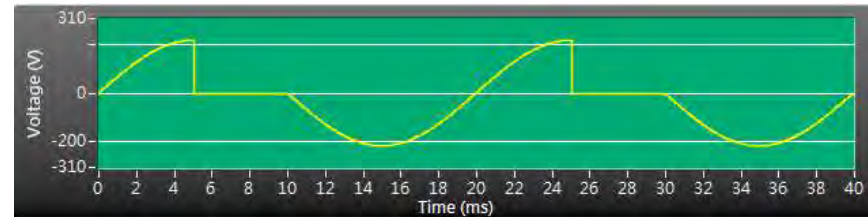
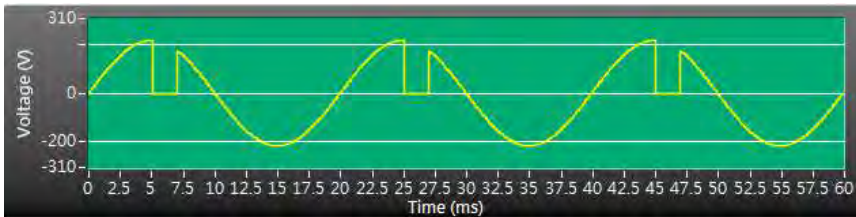
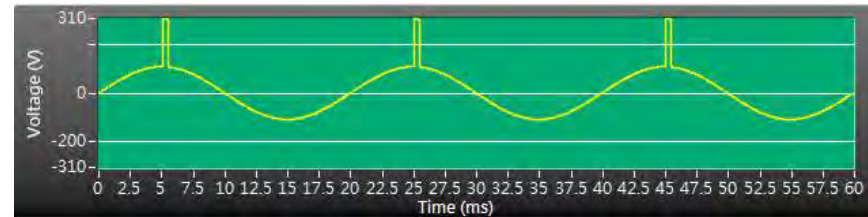
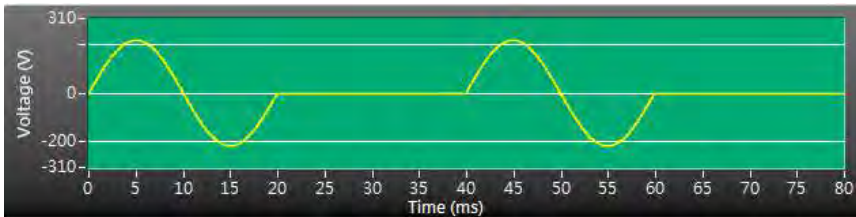
- Configure test steps on local machine or remote PC
- Easy operation and friendly display interface



AFV-P Series Features

3. Power Disturbance Test (Transient Function)

- Dropout/ Surge/ Sag...etc
- Pre-compliance test such as IEC-61000-4-11 or MIL-STD-704F for home appliances or military components



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AFV-P Series Features

4. Wide Frequency Output Option : 15Hz~ 1000Hz

- Optional for wide frequency output 15~ 1000Hz
- Suitable for military components, laboratory testing power, motor type low frequency test or transformer test
- Total Harmonic Distortion: 0.3% at 40-100Hz, 0.5% at 101-500Hz, 0.8% at 501-1000Hz

AFV-P Series Features

5. Communication Interface

- USB
- LAN
- RS-232
- RS-485
- GPIB (Option)
- Analog (Option)
- < Note 1> If choose GPIB option, can not use USB/ LAN/ RS232/ RS485 module at the same time
- < Note 2> User can connect USB/ LAN/ RS232/ RS485 port at the same time without data confliction



AFV-P Series Features

6. PC Software

- Easy setup and operation
- Automatically load data from AFV-P machine
- Provide Lab VIEW driver for programmers

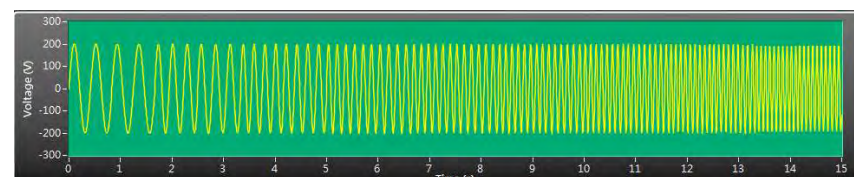
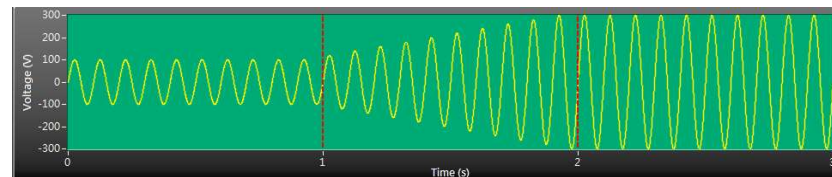
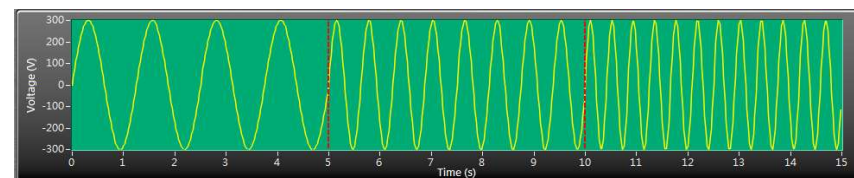
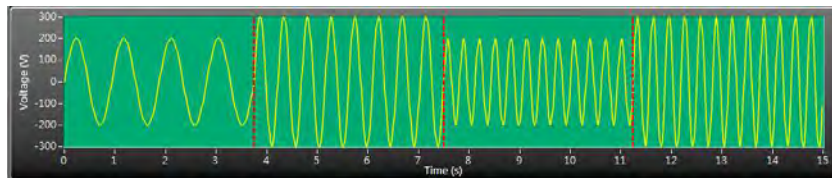


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AFV-P Series Features

7. Sweep & Ramp Test

- Ramp up/down to simulate soft start and decrease the start up current
- More delicate parameters for setting step /gradual testing (V, Hz, T)
- Changing V, Hz in one cycle.
- 50 memories, 24 steps in each memory, no drop out between memories.



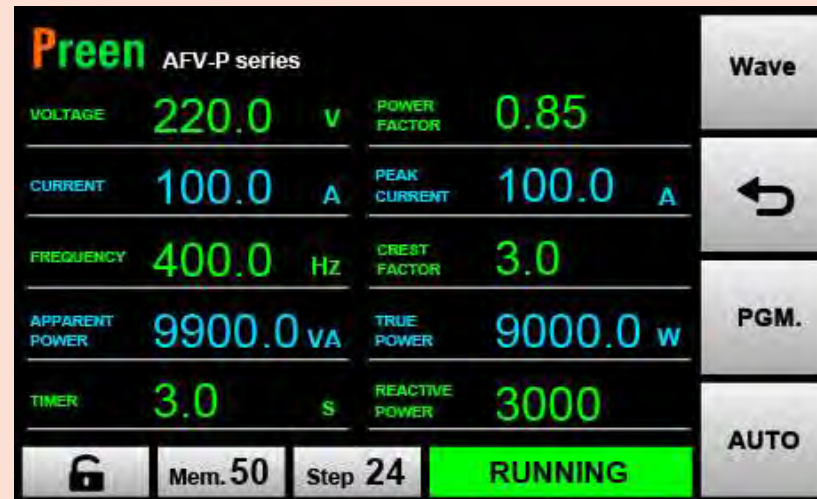
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AFV-P Series Features

8. Enhanced Measurement Function

- 10 Measurements and enhanced accuracy :
 - Voltage (V)
 - Frequency (Hz)
 - Current (A RMS)
 - Peak Current (A Peak)
 - Crest Factor (CF)
 - Power Factor (PF)
 - Real Power (W)
 - Apparent Power (VA)
 - Reactive Power (VAR)
 - Elapsed Output Time (Time)

Power Supply with Digital Meter



AFV-P Series Features

8. Key Performance Indicators

- Super Low THD (0.3% @ 40~100Hz)
- Fast Slew Rate (< 300 micro second from 0~90%)
- Low Line Regulation (0.1V) and Load Regulation (0.07%)



Parameter	Value	Unit
Urms1	220.24	V
Irms1	18.206	A
P1	4.0092	kw
Uthd1	0.380	%
S1	4.0098	kVA
λ1	0.9998	
I+pk1	25.891	A
fU1	999.99	Hz

Update 48 (500msec) 2016

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AFV-P Series Features

10. Others

- Start / End Angle Setup:
 - Suitable for switching power supply test, converter/inverter testing, server power testing...etc
- Constant Current Output Mode (CC)
 - Protect DUT with constant current output mode
- Test Limitation Settings (PASS/FAIL Judgment & Signal Output)
 - Easy for production line automation applications
- TTL Synchronize Signal
 - 5V TTL signal for value change or outputting
- 4.5 times Inrush Current when start up
- Real Time Waveform Display

AFV Series

Stand Alone Programmable AC Power Source

- Single Phase or 3 Phase Output
- 10kVA to 2000kVA Stand Alone Unit
(Not Parallel Connecting Multi Units)
- High Power, High Current Applications
- Three Phase Independent Voltage Control
- 7" Intuitive Touch Screen Control
- Custom Output Voltage Range Available
- Build-in Isolation Transformer



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Commercial Appliances Test & Verification

AFV Series used for providing programmable testing power



Server Power Supply Test



HVAC Compressor Test

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Product Test & Verification System

AFV Series used for ATE Test Systems



50kW PV Inverter Test System



5kW Micro Inverter Test System

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AFC Series

Economic AC Power Source

- Most Economic Adjustable V and Hz AC Power Source
- Manual Adjustment on the Front Panel
- Single Phase or 3 Phase Output
- 0.5kVA to 2000kVA Stand Alone Unit
(Not Parallel Connecting Multi Units)
- High Power, High Current Applications
- Custom Output Voltage Range Available
- Build-in Isolation Transformer



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Clean Chamber Power Source

AFC Series used for Power Conversion



100kVA AC Power Source

EMC Chamber Power

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ADG Series

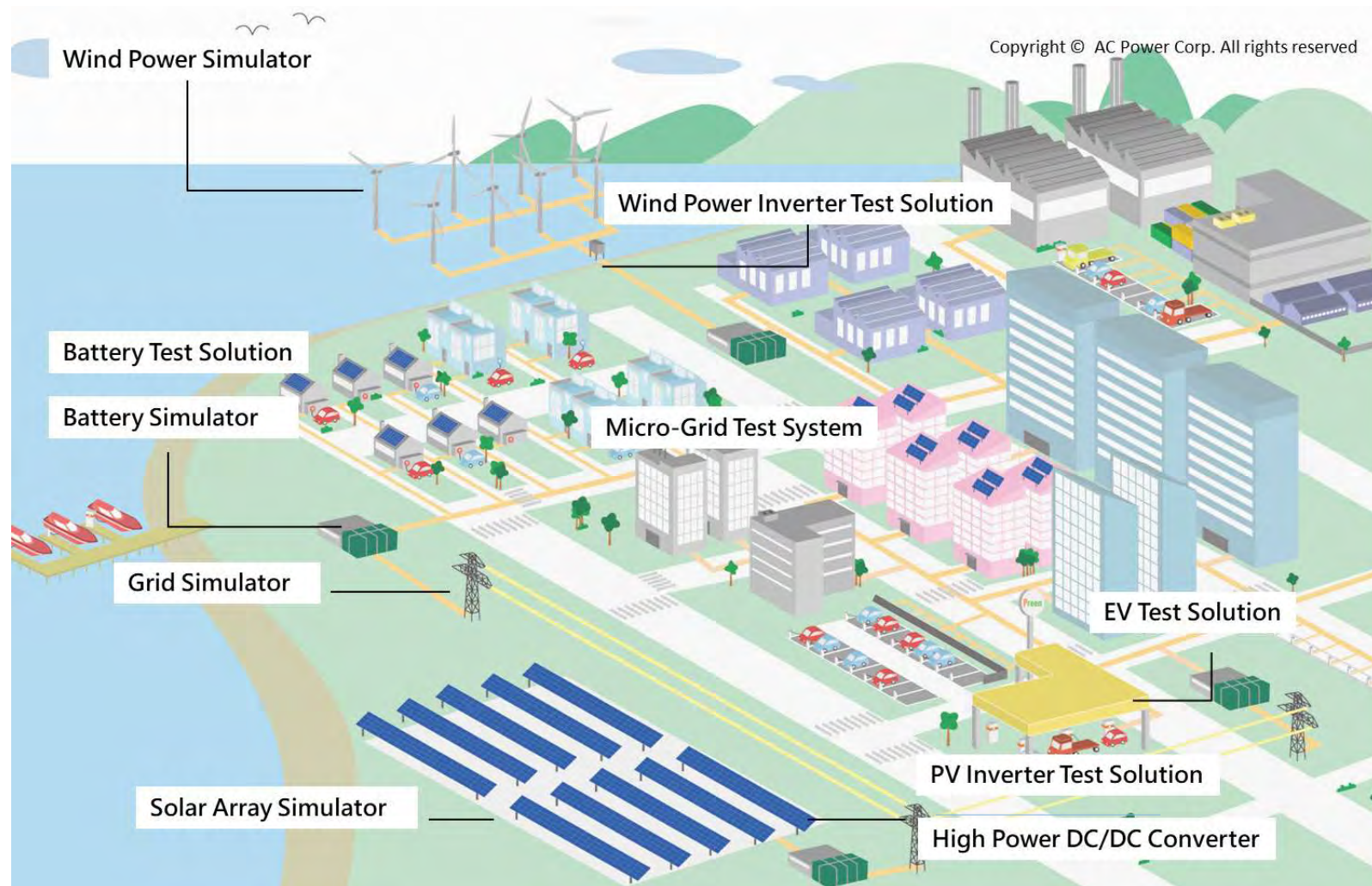
High Power DC Power Supply

- Output Voltage up to 2000V
- Output Current up to 2000A
- Low Output Ripple
- Fast Transient Response
- Compact & High Power Density
- 4.7" Intuitive Touch Screen Control
- Cost Effective DC Power Supply



EV and New Energy High DC Power Test

ADG Series used for EV Related Test and Verification



PAS-F Series

Regenerative Programmable AC Power Source

- AC Grid Simulator
- Regenerative Power to the Utility Grid
- 45-2000kVA New Energy Testing
- Sinks 100% Reactive Power (kVAR)
- Single Phase, Split Phase, and Three Phase Test
- Low Output Distortion (THD)
- Build -in LVRT Test Graph
- 7" Intuitive Touch Screen Control

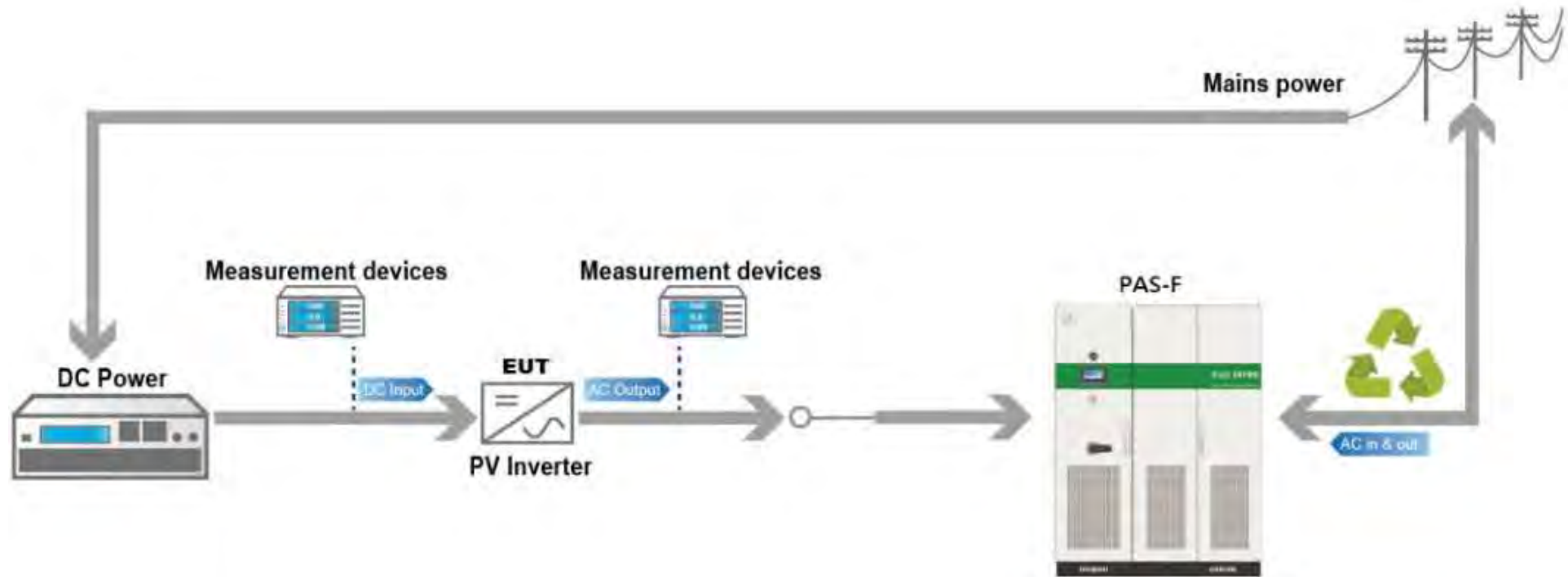


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New Energy and PV Inverter Test

PAS-F Series used for IEEE 1547.1 (UL-1741) Test and Verification



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High Power Products (Stand Alone)



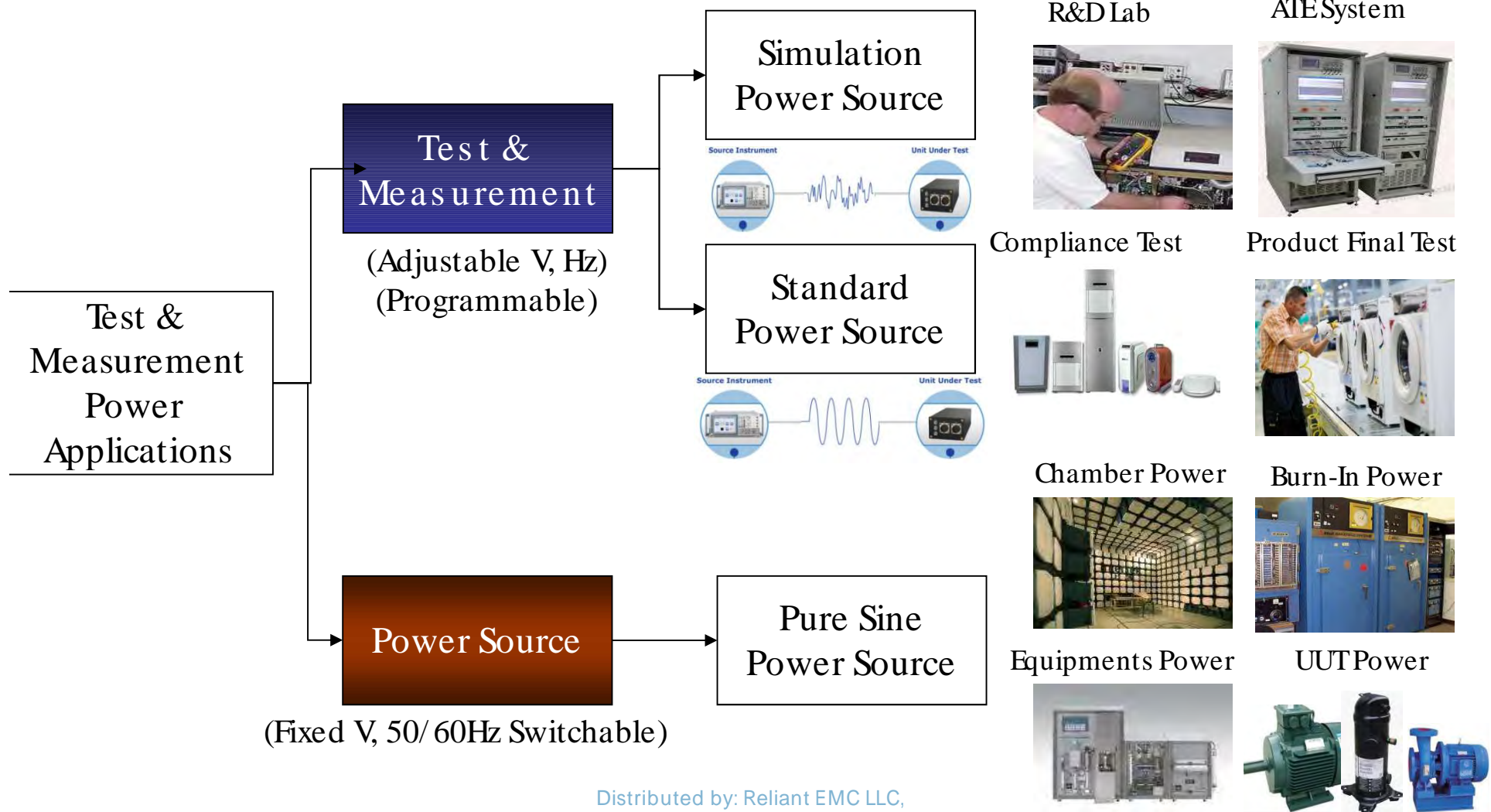
AFV 1200kVA



PAS 800kVA

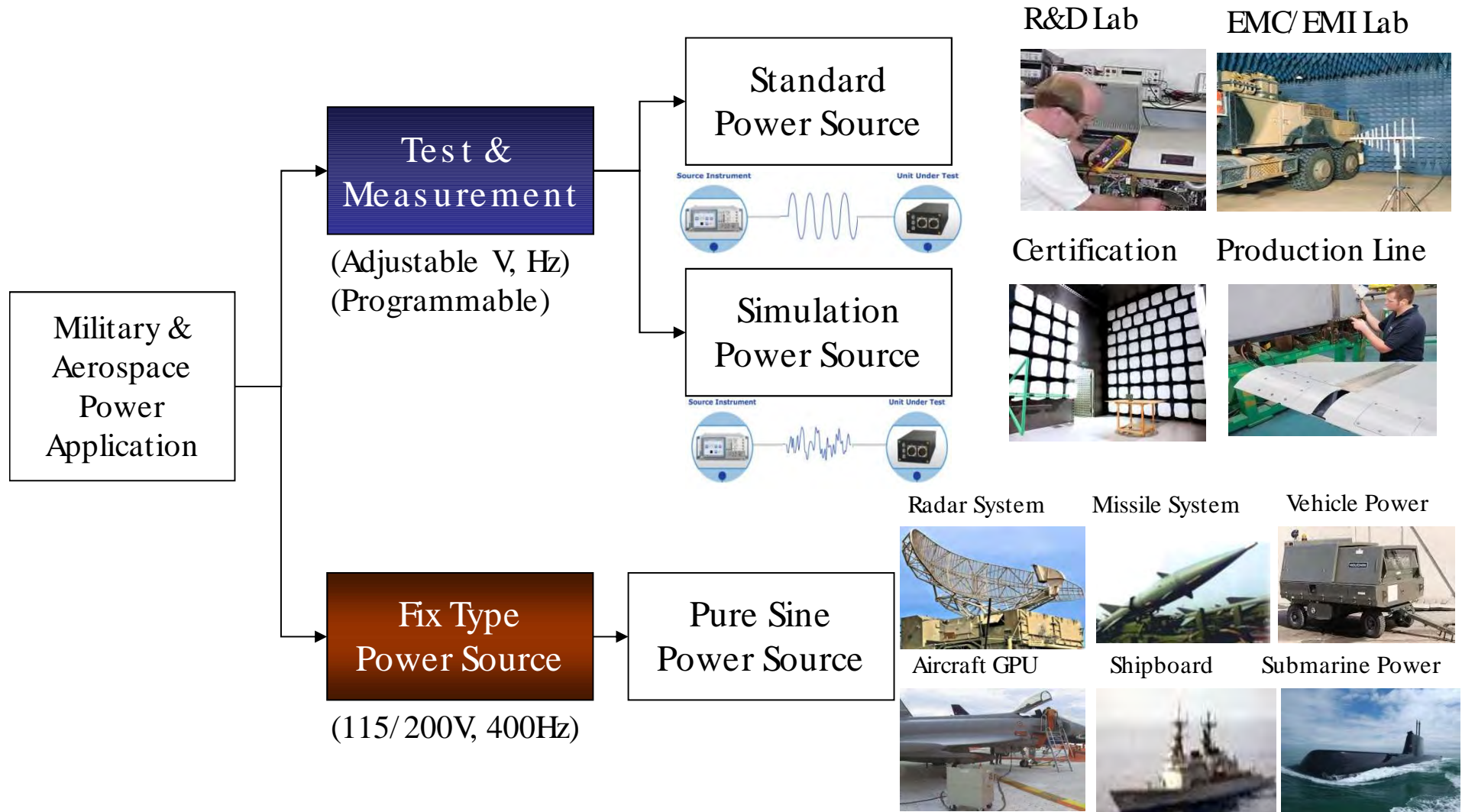
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Market and Applications



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Military and Aerospace Applications



Custom Products military market



Power Supply for Radar and Fire Control System



AC Power Source for Submarine



AC Power Source for Radar System



AC Power Source for Radar Vehicle

Custom Products others



Oil Platform



Array Radar



Naval Ship

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Ground Power Products (GPU/ APU)



Stand Alone GPU



Trailer Type GPU



28VDC/270VDC GPU

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AC + DC

Power Solutions

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