THE QUALITY CHOICE
SINCE 1998
FOR ALL YOUR POWER NEEDS

PAM POWER
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GRES

GRID & RENEWABLE BASED ENERGY STORAGE SOLUTIONS

Range:- 50 KW-75 KWH to 200 KW- 300 KWH



READY

IP54

- I&C Demand Management
- User Side Backup Power
- Building Micro Grid System
- Mobile Power Supply
- Voltage & Freq Regulation
- Peak Shaving

POM POWER GRES SOLUTIONS

The Future of Energy Storage

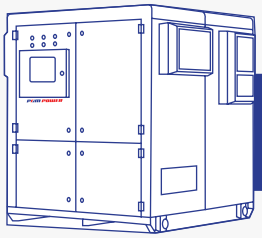
Range:- 50 KW-75 KWH TO 200 KW- 300 KWH

Unlock the full potential of renewable energy and secure reliable power access with POM Power's innovative Grid and Renewable Based Energy Storage (GRES) solutions. These systems are pivotal in transitioning urban areas to sustainable power infrastructure, supporting the integration of digital technologies and electric vehicles which depend heavily on quality, uninterrupted electricity. Expanding battery stoage infrastructure is crucial for ongoing development and growth.

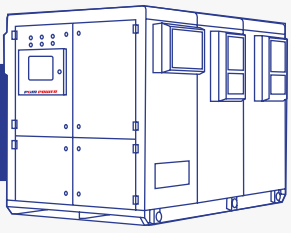
GRES solutions are essential for maximizing renewable energy storage capabilities, offering a pathway for grids to become completely independent of fossil fuels. The systems are highly scalable, allowing the creation of renewable energy storage systems that fit any need, large or small. Because they are installed within standard containers, GRES units are easily movable and can be deployed at one critical site and then relocated to meet immediate requirements elsewhere. POM Power has specifically developed container-based solutions offering power conditioners ranging from 50 KW to 200 KW, paired with battery capacities from 75 KWH to 300 KWH. This proven solution has seen wide acceptance in various local applications as solar power usage has increased.

POM Power provides best-in-class container solutions utilizing standard components like battery modules, PCS STS, inverter modules, and comprehensive BMS and EMS systems. Each container is configured as a convenient, plug-in energy storage system ready for rapid deployment in various locations. This standardized, prefabricated design significantly reduces user customization time and construction costs. It also minimizes safety hazards and management risks often associated with disparate local installations. GRES units meet the demanding application needs of regional power grids for peak regulation, frequency regulation, voltage regulation, emergency response, and new energy consumption integration, ensuring the normal, reliable operation of the entire power system.

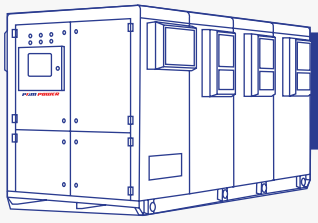
The operational benefits of implementing GRES are substantial,offering opportunities to increase renewable sources by better integrating energy produced by solar and wind turbines. This integration leads to greater financial gain, allowing owners to earn revenue through new streams, increase asset utilization, and lower operating costs. Furthermore, GRES enhances power grid stability by helping systems overcome under-loads and over-loads, control voltage fluctuations, and provide essential backup and auxiliary services, thereby improving overall reliability. For end users, this translates directly to energy cost reduction, optimizing power consumption and energy prices. Finally, these robust systems facilitate vital micro-grid island development, creating selfsufficient, independent power systems.



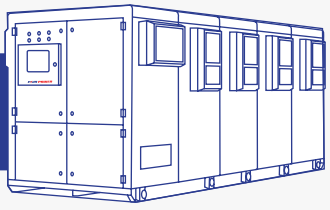
GRES : 75-50
Battery capacity : 75KWH
PCS capacity : 50KWH
Size: 1680*1502*1700 (W*D*H)mm



GRES : 150-100
Battery capacity : 150kWh
PCS capacity : 100kWh
Size: 1680*2264*1700 (W*D*H)mm



GRES : 225-150
Battery capacity : 225KWH
PCS capacity : 150KWH
Size : 1680*3026*1700(W*D*H)mm



GRES : 300-200
Battery capacity : 300kWh
PCS capacity : 200kWh
Size: 1680*3788*1700(W*D*H) mm

TECHNICAL SPECIFICATIONS

Model	GRES 75-50	GRES 150 -100	GRES 225-150	GRES 300-200
PV PARAMETER				
MPPT Voltage Range	DC200V - DC700V			
Number of MPPT Channels	0-2 (Optional)			
Maximum Single Channel Current	135A			
AC PARAMETER (ON- GRID)				
Rated Output Power	50 KW	100 KW	150 KW	200 KW
Maximum Output Power	55 KW	110 KW	165 KW	220 KW
Rated Grid Voltage	AC 380V/400V			
Grid Wiring	3W+N+PE			
Grid Voltage Range	-15%			+10%
Rated Grid Frequency	50Hz/60Hz ±2HZ			
Output Current Harmonics	≤ 3% (Rated Power)			
Power Factor Range	-0.9 ~ +0.9			
AC PARAMETER (OFF GRID)				
Rated Output Power	50 KW	100 KW	150 KW	200 KW
Rated Output Voltage	3W+N+PE, 380V/400V			
Output Voltage Harmonics	3% (Linear Full Load)			
Rated Frequency	50Hz/60HZ			
Overload Capacity	105% Continuous Operation; 105% 120%: 10 min; 120% :1 min			
BATTERY PARAMETER				
Cell Type	Lithium iron Phosphate (LiFePO4)			
Single Battery Module Energy	5.12 kwh			
Number of Battery Modules	15	30	45	60
Battery System Energy	76.8 kWh	153.6 kwh	230.4 kwh	307.2 kWh
Running Time	1.5h (The Duration Can Be Customized by Adjusting the Number of Battery Modules)			
Cycle Life	4000Times 0.5C@25 Charge and Discharge @100% DOD EOL 80%			
Protection	DC Switch, AC Switch, Grid Monitoring, Insulation Monitoring. DC Reverse Connection, Ground Fault			
Surge Protection	DC Level 2/ AC Level 2			
BASIC PARAMETER				
Size (W*D*H) (mm)	1680*1502*1700	1680*2264*1700	1680*3026*1700	1680*3788*1700
Weight (kg)	1395 Kg	2470 Kg	3545 Kg	4620 Kg
Isolation Mode	Non- Isolated / Isolation Transformer optional			
Protection Grade	IP54 For Outdoor Type			
Working Temperature Range	-20°C - 55°C (Derating Above 45°C)			
Relative Humidity (Without Condensing)	0-95%			
Temperature Control Method	Electrical Compartment - Intelligent Air Cooling, Battery Compartment - Air Conditioning			
Maximum Working Altitude	2,000 M At 45°c Up To 4,000 M With Derating Use			
Display	10' Touch Screen			
Communication interface	RS 485, CAN, LAN			
Communication Protocol	Modbus - RTU, Modbus - TCP, CAN 2.0B			

OUR BRANCHES

NEW DELHI
F-128, Ground Floor & Second Floor Room No. 203
Jhandu Mention Building Mohammadpur Village
New Delhi – 110066 , Mob . 9035679578

CHENNAI
#2, Muthaiyal Street, First Floor, Little Mount, Saidapet,
Chennai - 600 015, Mob: 9108992485.

TRIVANDRUM
TC 20/1361 (1), G Floor, Amal Plaza, Kudapanakunnu P. O,
Thiruvananthapuram - 695 043 Mob. 9035032567

COIMBATORE
Skyon, # 451, Ist Floor, Kamarajar Road, Peelamedu
Coimbatore – 641004, Mob :9036180749

VISAKHAPATNAM
No : 50-27-17/4, Seethammadhara NE NRI Hospital Road,
Visakhapatnam – 530013, Mob. 9902228907

HUBBALLI
Shop No. 03, Ground Floor, Sri Lakshmi Complex
Opp. Rotory School , Deshpande Nagar, Hubballi
Dharwad (Dist) Pin 580020, Mob. 9036180742

HYDERABAD
No: 64-9/2 and 6-4-9/2/A, Bholakpur Secunderabad,
Hyderabad - 500 080, Mob. 9902231099

KOLKATA
D 2/2, Block EP & GP, Convergence Contact Centre
Sector 5, Bidhan Nagar, Salt Lake, Kolkata
Mob: 9036180747

AHMEDABAD
A-413, Supath-2 Complex, near Regenta Hotel
Opp. Old Vadaj Bus Stop, Umanpura, Ashram Road
Ahmedabad-380013, Mob . 9036180746

ERNAKULAM
VRWA - 49 , 52 / 2898 A, Kooduthotty Behind
SBI Vytilla Branch, Maplassery Road, Kochi-682019
Mob. 9035070283

PATNA
Near Shyama Villa Apartment,Road No 6 Rajapur
Boring Road, Patna-800001, Mob. 9606978032

TIRUPATI
No 16, Sri Nilayam, H No 15-191 Ground Floor
Dhanalakshmi Nagar Extn, Gandhipuram
Tirupati-517507 , Mob. 9035032565

PUNE
Plot no P 81, D 2 Block, Behind Kabre Hospital MIDC
Chinchawad, Pune - 411 038, Mob . 9036180744

MUMBAI
No. 620, Marathon Max, Mulund Goregaon Link Road,
Mulund West, Mumbai - 400 080 Mob. 9035032568

LUCKNOW
451/6 Indira Nagar, A-Block, Lucknow-226016
Mob. 9606978038

UDUPI
Door No -6-99 B-5 Manchi, 1st Cross Indrali Alevoor Road
Udupi - 576104, Mob. 9606978037

VIJAYAWADA
No : 39-9-42, SVS Temple Street, Labbipet
Vijayawada - 520 010, Mob. 9902228907

NOIDA
A321, Anthurium,Sector 73, Noida, UP-201301
Mob: 9902226370

CHANDIGARH
05, Raipur Khurd, Behind Tribune Colony
Chandigarh-160003, Mob : 9902226370



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IEC CE TÜVRheinland CERTIFIED ISO 9001 : 2015 ISO 45001 : 2018 ISO 14001 : 2015 IS 16169 R 62005688 IS 16221 R 62005096 IS 16169 R 62005068 IS 16242 R 62005231 MINISTRY OF NEW AND RENEWABLE ENERGY