



Online double-conversion
Scalable
Decentralized
Parallel
Modular
10, 15, 20kVA modules
Power factor 1.0

Decentralized Parallel Modular UPS system



Main Characteristics

- Decentralized Parallel Structure Concept
- Compact in Size, only 3U Height
- DSP Control technology
- Modular N+X Parallel Redundancy
- Parallel Operation up to 4 frames
- Invest as You Grow
- Superior MTBF & MTR
- Output Power Factor = 1.0
- Wide input voltage 208V~478Vac
- 7" Touch screen TFT color monitor display

- High efficiency can reach up to 95,5%
- No Single Point of Failure Might Occur
- Programmable Battery Voltage
- Common Battery
- Plug-and-Play Hot Swappable Module & Batteries
- Intelligent Charge Modes with smart charge current adjustment
- Powerful charger built in Modular and UPS frame
- Matching battery modules available

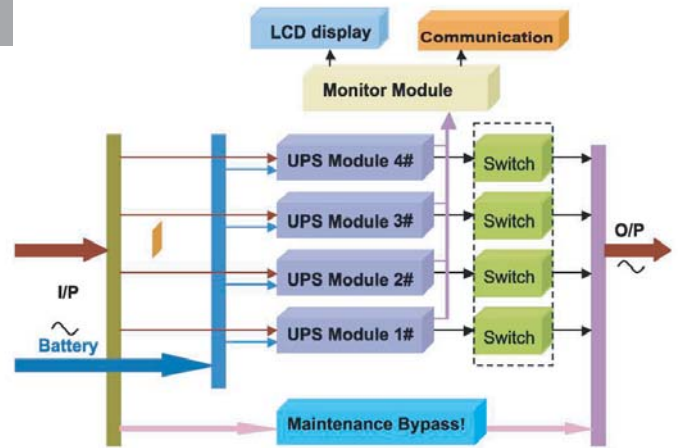


DSP Controlled Technology

With advanced DSP Control,
NRG DPM series offers maximum
power density

Compact & **H**igh-efficient

only 3U height



Superior MTBF & MTRR

Service and maintenance costs are minimized.

Modular N+X Parallel Redundancy

Modules can be set connected to N+X according to the protection level required.

Decentralized Parallel Structure with Hot-Swappable feature

Decentralized parallel structure reduces the single points of failure as well as minimizes service and maintenance costs.



INVEST AS YOU GROW

Common Battery

Enables several modules in parallel to use one battery bank to save unnecessary extra wiring and investment to the batteries



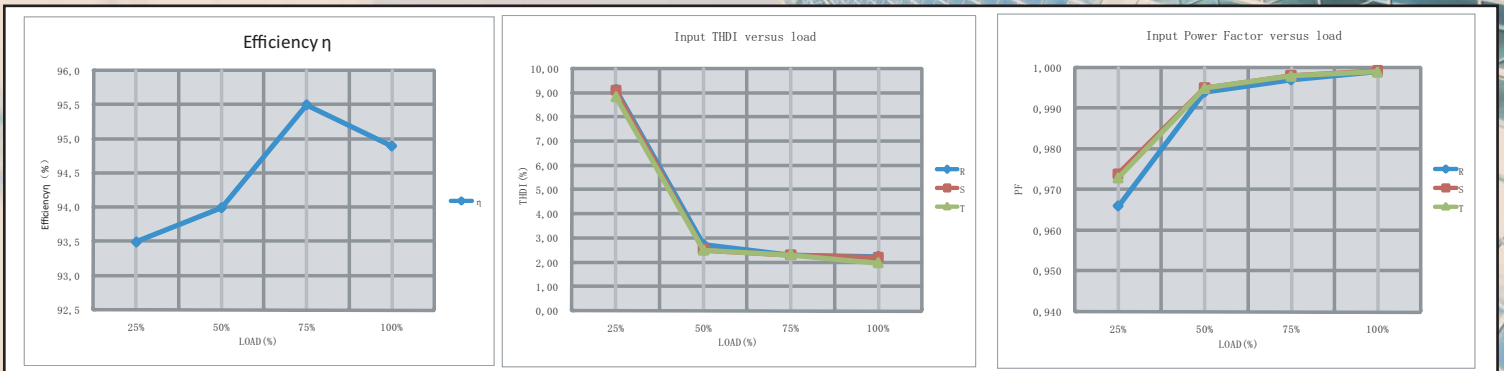
NRG DPM has the ability to easily scale power. It is possible to add power as the data center power requirements grow, which eliminates the high initial investment cost of purchasing power capacity that is not required at the first stage of investment

Matching Hot Swappable battery module available



Unity Input Power Factor with Low Input Current Distortion & High Efficiency

Thanks to DSP Control technology implemented, the UPS may reach Unity Power factor, low input current THD as well as high output efficiency.



T Technical Specifications

TYPE	DPM 3320 40K		DPM 3320 60K	
CAPACITY (VA/Watts) UPS Cabinet	10-40kVA/Watts		10-60kVA/Watts	
CAPACITY (VA/Watts) UPS Module	10 kVA, 15kVA, 20kVA / Watts		10 kVA, 15kVA, 20kVA / Watts	
Output power factor	1			
Technology	True On line double conversion, IGBT inverter & rectifier with DSP			
INPUT				
Input voltage	380 /400 /415 Vac (3ph +N +PE)			
Voltage Range	208 - 478VAC			
THDi	2,5% (100% non linear load)			
Frequency	40-70 Hz			
Power factor	≥0.99			
Bypass Voltage Range	380: +25% (optional+10%,+15%,20%), 400: +20% (optional+10%,+15%), 415: 15% (optional+10%) Min voltage:-45%(optional-20%,+30%), Frequency protection range:+/-10%			
Generator	Support			
OUTPUT				
Output voltage	380 /400 /415 Vac (3ph + N + PE)			
Voltage tolerance	+/-1%			
Frequency	Line mode: +/-1%, +/-2%, +/-4%, +/-5%, +/-10%, Battery mode: 50/60Hz +/-0,1%Hz		Line mode: +/-1%, +/-2%, +/-4%, +/-5%, +/-10%, Battery mode: 50/60Hz +/-0,2%Hz	
THDv	<2% (linear load), <5% (non-linear load)			
Crest factor	3 : 1			
EFFICIENCY				
Efficiency	95,5% at normal load			
ENVIRONMENT				
Storage temperature	-25-55°C			
Operating environment	0-40°C (from 20-25°C for maximum battery life) / 0-85% humidity without condensation			
Altitude	≤1500 m			
Noise level	<60dB (A)		<65dB (A)	
BATTERY				
Battery type (internal)	VRLA AGM / GEL			
External battery cabinet socket	Standard			
SYSTEM FEATURES				
Overload	Line Mode	Load≤110%: last 60min, ≤125%: last 10min, ≤150%: last 1min, >150% turn to bypass mode immediately		
	Battery Mode	Load≤110%: last 10min, ≤125%: last 1min, ≤150%: last 1sec, >150% turn to bypass mode immediately		
	Bypass Mode	Breaker (10kVA:20A / 15kVA:32A / 20kVA:40A)		
COMMUNICATIONS				
Display	LCD display 7"			
Communication	SNMP (optional), RS232, RS485, MODBUS			
Remote monitoring	Remote monitoring panel (optional)			
Dry contacts & Custom inputs	Programmable 3 dry contacts, generator, remote EPO, battery temperature sensor			
PHYSICAL CHARACTERISTICS				
Frame: Weight (w/o batteries) kg	159		149	
Frame: Dimensions W x H x D (mm)	600 x 1400 x 1100		600 x 1400 x 840	
Module: Weight /kg	10kVA 3/3module:26kg	15kVA 3/3module:30kg	20kVA 3/3module:31kg	
Module: Dimensions W x H x D (mm)	443 x 131 x 580			
Battery Module: Dimensions / Weight	482 x 175 x 861,5 (WxHxD)mm / 33,5Kg (Module for 40pcs 12V/9Ah)			
STANDARDS				
Safety / Degree of protection	IEC/EN 62040-1, IEC/EN 60950-1			
Performance / EMC	IEC/EN 62040-2, IEC 61000-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8			
Product certification	CE			