

VANGUARD RM Series

VRM series take the responsibility of missional electronic protection.

- On-Line UPS Design
- Pure Sinewave Output
- High Efficiency Mode
- Free-Run Mode
- Hot Swappable Battery Replacement
- Simple and Clear LCD Indicator
- Overload, Surge, Short Circuit Protection
- Design for Advance Missional Electronic Device



VRM-4K-5K(3U)



VRM-6K-12K(3U+3U)

Specifications

| Model | VGD-4000 RM | VGD-5000 RM | VGD-6000 RM | VGD-8000 RM | VGD-10K RM | VGD-12K RM |
|---------------------------------------|---|----------------------|-------------|----------------------|------------|----------------------|
| Configuration | | | | | | |
| Capacity (VA) | 4000 VA | 5000 VA | 6000 VA | 8000 VA | 10 KVA | 12 KVA |
| Capacity (Watts) | 2800 W | 3500 W | 4200 W | 5600 W | 7000 W | 8400 W |
| Form | Rack Type | | | | | |
| Phase | Single Phase | | | | | |
| Energy Saving | Yes - ECO Mode Efficiency >94% | | | | | |
| Input | | | | | | |
| Voltage | 208 / 220 / 230 / 240 Vac | | | | | |
| Input Voltage Range | 120 - 276 VAC < 25% Load | | | | | |
| | 140 - 276 VAC < 50 % Load | | | | | |
| | 160 - 276 VAC < 75% Load | | | | | |
| | 180 - 276 VAC < 100% Load | | | | | |
| Input Frequency Range | 50 / 60 Hz (Auto Sensing) | | | | | |
| Input Power Factor | >0.97 | | | | | |
| Cold Start | Yes | | | | | |
| Output | | | | | | |
| Rated Power Factor | 0.7 | | | | | |
| Waveform | Pure Sine Wave | | | | | |
| Voltage | 208* / 220 / 230 / 240 Vac ± 2% | | | | | |
| Frequency | 50 / 60 Hz ±0.25 Hz | | | | | |
| Transfer Time | 0 ms | | | | | |
| Harmonic Distortion | ≤ 3% THD at Linear Load | | | | | |
| Crest Factor | 3 : 1 | | | | | |
| EPO Function | Yes | | | | | |
| Protection | | | | | | |
| Overload | 110% - 125% for 60 seconds : 125% - 150% for 10 seconds | | | | | |
| | > 110% for 10 seconds | | | | | |
| Surge Protection | IEC 61000-4-5 Level 3 | | | | | |
| Bypass | Internal Bypass (Automatic and Manual) | | | | | |
| Short Circuit Protection | UPS Output Cut Off Immediately | | | | | |
| Battery | | | | | | |
| Type | 12V 5Ah | 12V 5Ah | 12V 7Ah | 12V 7Ah | 12V 9Ah | 12V 9Ah |
| Quantity | 10 | 10 | 20 | 20 | 20 | 20 |
| Sealed, Maintenance Free | Yes | | | | | |
| Typical Recharge Time | 4 hr to 90% | | | | | |
| External Battery Module | Option | | | | | |
| External Battery Connector | Option | | | | | |
| Management & Communication | | | | | | |
| Indicator | LCD Control Panel | | | | | |
| Communication Port | RS 232, USB B type | | | | | |
| SNMP Slot | Option | | | | | |
| Audible Alarms | Yes | | | | | |
| Physical | | | | | | |
| Power Module | Dimensions (WxDxH)(mm) | 428 x 657 x 130 (3U) | | 428 x 597 x 130 (3U) | | 428 x 657 x 130 (3U) |
| | Weight (kgs) | 40 | | 20 | | 24.3 |
| Battery Module | Shipping Dimensions(mm) | 590 x 830 x 370 (3U) | | 560 x 740 x 273 (3U) | | 565 x 805 x 280 |
| | Shipping Weight (kgs) | 54 | | 24 | | 30.5 |
| Battery Module | Dimensions (WxDxH)(mm) | - | | 428 x 597 x 130 (3U) | | 428 x 657 x 130 (3U) |
| | Weight (kgs) | - | | 66 | | 68 |

* While 208V output, capacity will be derated to 90%.
 ** Specifications are subject to change without further notice.
 ** Specifications are for reference, actual information should be based on real product.