

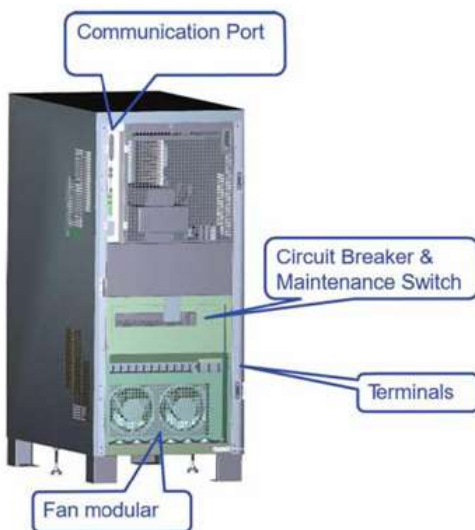


Online UPS 3Phase Out

ePower+ Series
10~150 KVA
3:3 Phase PF: 0.9



LCD Display



Features:

- Online double-conversion
- DSP technology guarantees high reliability
- True galvanic isolation transformer design
- Control designed to withstand all kinds of loads
- Intelligent battery management to prolong battery lifecycle
- Redundant fan design and independent ventilation enhance durable operation under harsh environment
- Adjustable battery numbers
- Accept dual-mains input
- Parallel operation with up to 4 units (option)
- Variety of communication options available
- SNMP/Modbus compatible

ePower+ Series (10~150 KVA)

Technical Specifications

| MODEL | ePower+ 10K | ePower+ 20K | ePower+ 30K | ePower+ 40K | ePower+ 60K | ePower+ 80K | ePower+ 100K | ePower+ 120K | ePower+ 150K | | | | | |
|---|--|-------------|-----------------|-------------|------------------------|-------------|------------------|--------------|------------------|--|--------------|-----|-----|-----|
| CAPACITY | 10KVA/9KW | 20KVA/18KW | 30KVA/27KW | 40KVA/36KW | 60KVA/54KW | 80KVA/72KW | 100KVA/90KW | 120KVA/108KW | 150KVA/135KW | | | | | |
| INPUT | | | | | | | | | | | | | | |
| Nominal Voltage | 3 x 380VAC/400VAC/415VAC (3Ph + N) | | | | | | | | | | | | | |
| Acceptable Voltage Range | 285VAC ~ 480VAC | | | | | | | | | | | | | |
| Frequency | 50/60 Hz ± 10 % | | | | | | | | | | | | | |
| OUTPUT | | | | | | | | | | | | | | |
| Nominal Voltage | 3 x 380VAC/400VAC/415VAC (3Ph + N) | | | | | | | | | | | | | |
| Precision | Stationary: ±1% Transitory: ±5% (load variations 100-0-100%) | | | | | | | | | | | | | |
| Frequency | 50/60 Hz synchronised ±1 % With mains absent ±0.1 Hz | | | | | | | | | | | | | |
| Max. Synchronisation Speed | ±1 Hz/s | | | | | | | | | | | | | |
| Waveform | Pure Sinewave | | | | | | | | | | | | | |
| Total Harmonic Distortion (THDv) | <2% (Linear Load) <5% (Non-linear Load) | | | | | | | | | | | | | |
| Phase Displacement | 120° ±1% (balanced load) 120° ±2% (imbalances 50% of the load) | | | | | | | | | | | | | |
| Dynamic Recovery Time | 3 cycles at 90 % of the static value | | | | | | | | | | | | | |
| Admissible Overload | 110% for 60min; 125% for 10min; 150% for 1min; >160% for 200ms | | | | | | | | | | | | | |
| Admissible Crest Factor | 3:1 | | | | | | | | | | | | | |
| Admissible Power Factor | 0.6~1 (inductive or capacitive) | | | | | | | | | | | | | |
| Imbalance Output Voltage @ 100% Unbalanced Load | <1% | | | | | | | | | | | | | |
| Current Limit | High overload, short-circuit: RMS Voltage Limit High Crest-Factor current: Peak Voltage Limit | | | | | | | | | | | | | |
| Overall Efficiency | Line Mode | 91.5% | 91.5% | 92.5% | 93.5% | 94.5% | 94.5% | 94.5% | 94.5% | | | | | |
| | Battery Mode | 91.5% | 91.5% | 92.5% | 94.5% | 94.5% | 94.5% | 94.5% | 94.5% | | | | | |
| STATIC BYPASS | | | | | | | | | | | | | | |
| Type | Solid state | | | | | | | | | | | | | |
| Voltage | 3 x 380VAC/400VAC/415VAC (3Ph + N) | | | | | | | | | | | | | |
| Frequency | 50/60 Hz | | | | | | | | | | | | | |
| Activation Criterion | Microprocessor control | | | | | | | | | | | | | |
| Transfer Time | Zero | | | | | | | | | | | | | |
| Admissible Overload | 150% for 1 hour; 180% for 30sec; >200% for 200ms | | | | | | | | | | | | | |
| Transfer to Bypass | Immediate, for overloads above 160% | | | | | | | | | | | | | |
| Retransfer | Automatic after alarm clear | | | | | | | | | | | | | |
| MAINTENANCE BYPASS | | | | | | | | | | | | | | |
| Type | Without interruption | | | | | | | | | | | | | |
| Voltage | 3 x 400V (3Ph + N) | | | | | | | | | | | | | |
| Frequency | 50/60 Hz | | | | | | | | | | | | | |
| BATTERY & CHARGER | | | | | | | | | | | | | | |
| Battery Type and Numbers | 12VDC x 32 pcs (29~32 pcs adjustable) | | | | | | | | | | | | | |
| Nominal Battery Voltage | 384 VDC (Based on 32pcs batteries) | | | | | | | | | | | | | |
| Charging Method | CC/CV | | | | | | | | | | | | | |
| Charging Current | Default 10A, Max. = Capacity / Battery Voltage | | | | Default: 10A. Max. 40A | | | | | | | | | |
| Charging Voltage | 432 VDC (Based on 32pcs batteries) | | | | | | | | | | | | | |
| SYSTEM FEATURES | | | | | | | | | | | | | | |
| Communication Interface | RS 232 inbuilt; Dry Contact, RS 485, SNMP Modbus(Optional) | | | | | | | | | | | | | |
| LED Indications | Bypass, Mains, Battery and Fault | | | | | | | | | | | | | |
| LCD Display | Input Voltage & Freq.; Output Voltage, Current, KVA, KW, Total Power, PF, Load % Per Phase, Load % Total & Freq.; Bypass Voltage & Freq.; Inverter Voltage & Freq.; Battery Voltage, DC Bus Voltage, Charging Current, Discharging Current, Temperature. | | | | | | | | | | | | | |
| ENVIRONMENTAL | | | | | | | | | | | | | | |
| Operating Temperature | 0°C ~ 45°C | | | | | | | | | | | | | |
| Storage Temperature | -25°C ~ 70°C | | | | | | | | | | | | | |
| Relative Humidity | 0 ~ 95% | | | | | | | | | | | | | |
| Altitude | Up to 1000 Mtr. | | | | | | | | | | | | | |
| Noise Level | ≤ 40 dB | | | ≤ 45 dB | | | | ≤ 60 dB | | | | | | |
| STANDARDS | | | | | | | | | | | | | | |
| EMC/Safety | IEC/EN 62040-1; IEC/EN 60950-1; IEC/EN 62040-2-3 | | | | | | | | | | | | | |
| PHYSICAL | | | | | | | | | | | | | | |
| Dimensions, D x W x H(mm) | 656 x 405 x 817 | | 656 x 405 x 941 | | 821 x 432 x 1159 | | 975 x 554 x 1286 | | 975 x 635 x 1326 | | 985X555X1326 | | | |
| Net Weight (Kgs) | 118 | | 145 | | 193 | | 278 | | 365 | | 471 | 573 | 650 | 702 |

* Product specifications are subject to change without further notice



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