



APoS

Advanced Power Systems

Mini-J RT V

(1000 VA - 3000 VA)



Features:

- True double-conversion
- Output power factor 0.9
- ECO and advanced ECO mode for energy saving
- Output voltage regulation < 1%
- Higher output crest ratio 3:1
- 50Hz/60Hz frequency converter mode
- Programmable power management outlets
- Emergency power off function (EPO)
- Hot swappable battery design



...principle safety

Mini-J RT V

| MODEL | | 1K | 2K | 3K |
|--------------------------------------|--------------------------------------|---|------------------------------|---------------------------|
| Phase | | Single phase / Single phase | | |
| Capacity (VA/W) | | 1000 VA / 900 W | 2000 VA / 1800 W | 3000 VA / 2700 W |
| INPUT | | | | |
| Nominal Voltage | | 100*/110*/115*/120 /127 VAC or 200/208/220/230/240 VAC | | |
| Voltage Range | | 55-150 VAC ± 5% or 110-300 VAC ± 5% @ 50% load 80-150 VAC ± 5% or 160-300 VAC ± 5% @ 100% load | | |
| Frequency Range | | 40Hz ~ 70Hz | | |
| Harmonic Distortion(THDi) | | ≤ 5% @ nominal input voltage | | |
| Power Factor | | ≥ 0.99 @ nominal voltage (100% load) | | |
| OUTPUT | | | | |
| Output Voltage | | 100*/110*/115*/120/127 VAC or 200/208/220/230/240 VAC | | |
| AC Voltage Regulation (Batt. Mode) | | ± 1% | | |
| Frequency Range (Synchronized Range) | | 57 ~ 63 Hz or 47 ~ 53 Hz or | | |
| Frequency Range (Batt. Mode) | | 60Hz ± 0.1Hz or 50 Hz ± 0.1Hz | | |
| Current Crest Ratio | | 3:1 (max.) | | |
| Harmonic Distortion | | ≤ 2 % THD (Linear Load); ≤ 4 % THD (Non-linear load) | | |
| Transfer Time | AC mode to Battery mode | Zero | | |
| | Inverter to Bypass | 4 ms (Typical) | | |
| Waveform (Batt. Mode) | | Pure Sinewave | | |
| EFFICIENCY | | | | |
| AC Mode | | ≥ 90% @ full charged battery | ≥ 91% @ full charged battery | |
| ECO Mode | | ≥ 96% @ full charged battery | | |
| Battery Mode | | ≥ 88% @ full charged battery | ≥ 90% @ full charged battery | |
| BATTERY | | | | |
| Standard Model | Battery Type | 12 V / 7 AH | 12 V / 7 AH | 12 V / 9 AH |
| | Numbers | 3 | 6 | 6 |
| | Typical Recharge Time | 4 hours recover to 90% capacity | | |
| | Charging Current (max.) | 1A/3A/4A (Adjustable) | | |
| | Charging Voltage | 41.1 V _{DC} ± 1% | 82.1 V _{DC} ± 1% | 82.1 V _{DC} ± 1% |
| Long-run Model | backup time (full load / half load): | 6min/14min | | 4min/10min |
| | Battery Type | Depending on the capacity of external batteries | | |
| | Numbers | 3 | 6 | 6 |
| | Charging Current (max.) | 1A / 2A / 4A / 8A (Selectable via LCD setting) | | |
| | Charging Voltage | 41.1 V _{DC} ± 1% | 82.1 V _{DC} ± 1% | 82.1 V _{DC} ± 1% |
| INDICATORS | | | | |
| LCD Display | | Load level, approx. backup time, AC mode, Battery mode, Bypass mode, and Fault indicator | | |
| ALARM | | | | |
| Battery Mode | | Sounding every 5 seconds | | |
| Low Battery | | Sounding every 2 seconds | | |
| Overload | | Sounding every second | | |
| Fault | | Continuously sounding | | |
| PHYSICAL | | | | |
| Standard Model | Dimension, D X W X H (mm) | 410 x 438 x 88 | 630 x 438 x 88 | 630 x 438 x 88 |
| | Net Weight (kgs) | 14,2 | 26,9 | 27,4 |
| Long-run Model | Dimension, D X W X H (mm) | 410 x 438 x 88 | 410 x 438 x 88 | 510 x 438 x 88 |
| | Net Weight (kgs) | 6,4 | 6,5 | 10,5 |
| ENVIRONMENT | | | | |
| Humidity | | 20-90 % RH @ 0- 40°C (non-condensing) | | |
| Noise Level | | Less than 50dBA @ 1 Meter | | |
| MANAGEMENT | | | | |
| Smart RS-232/USB | | Windows 2007/8/10 / Linux, Mac, VMware, Unix | | |
| Optional SNMP | | Power management from SNMP manager and web browser | | |
| STANDARDS | | | | |
| Safety Standards | | EN50091-1 | | |
| Low Voltage Directive | | EN62040-1: 2008+A1: 2013 | | |
| EMC Directives | | EN62040-2 : 2006+AC: 2006 (EN 61000-3-2: 2014, EN61000-4-2: 2009, EN61000-4-3:2006+A2: 2010; EN61000-4-4: 2012, EN61000-4-5: 2006, EN61000-4-6: 2014, EN61000-4-8: 2010, EN61000-2-2:2002; C3 | | |