



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%
	backup time (full load / half load):	6min/14min		4min/10min
Long-run Model	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		

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