


V1.0

Model No.	RiiO 2KVA-M	RiiO 3KVA-M	RiiO 2KVA-S	RiiO 3KVA-S	RiiO 4KVA-S	RiiO 5KVA-S	RiiO 6KVA-S
Product Topology	Transformer based						
Generator Power Assist	Yes						
AC input voltage range (VAC)	175~265						
AC input Frequency range (Hz)	45~65						
AC input Current (transfer switch) (A)	32					50	

Inverter

Nominal battery voltage (V)	24			48			
Input voltage range (V)	21~34			42~68			
AC output voltage (VAC)	220/230/240 ± 2%						
AC output Frequency (Hz)	50/60 ± 0.1%						
Harmonic distortion	< 2%						
Load Power factor	1.0						
Cont. output power at 25°C (VA)	2000	3000	2000	3000	4000	5000	6000
Max Output power at 25°C (W)	2000	3000	2000	3000	4000	5000	6000
Peak power (3sec) (W)	4000	6000	4000	6000	8000	10000	12000
Surge	300%						
Maximum efficiency	91%	91%	93%	93%	93%	94%	94%
Zero load power (W)	13	17	13	17	19	22	25

Charger

Charge voltage 'absorption' (V)	28.8			57.6			
Charge voltage 'float' (V)	27.6			55.2			
Battery types	AGM/GEL/OPZV/Lead-Carbon/Li-ion/Flooded/Traction/TBB SUPER-L						
Max AC charge current (A)	40	70	20	35	50	60	70
Temperature compensation	Yes						

General Data

Output (AC Out) Current (A)	32			50			
Transfer time	4ms (<15ms in Weak AC source Mode)						
Protection	a) output short circuit; b) overload; c) battery voltage too high; d) battery voltage too low; e) temperature too high; f) input voltage out of range; g) input voltage ripple too high; h) Fan block						
General purpose com. Port	RS485 (GPRS,WLAN optional with Kinergy)						
Operating temperature range	-20°C to 65°C						
Relative humidity in operation	95% without condensation						
Altitude (m)	2000						

Mechanical Data

Dimension (mm) (max)	499 x 272 x 144				570 x 310 x 154		
Net weight (kg)	14	17	14	17	19	27	29
Cooling	Forced fan						
Protection index	IP21						

Standards

Safety	EN-IEC 62477-1						
EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-3-11,EN61000-3-12						