

V)	10.5~17	21~34	
AC)	220/230/240 ± 2%		
/ (Hz)	50/60 ± 0.1%		
	<2%		
t 25°C (VA)	1000	1500	
25°C (W)	1000	1500	
	2000	3000	
	89%	91%	
	12	12	
orption' (V)	14.4	28.8	
' (V)	13.8	27.6	
	AGM / GEL / OPzV / Lead-Carbon / Flooded / Traction /		
ent (A)	40	35	
nsation	Yes		
A)	60	60	
circuit voltage (V)	150	150	
(V)	40~145	40~145	
ckers	1	1	
urrent per tracker (A)	36	36	
uit current per tracker (A)	40	40	
wer	860W @ 14.4V	1720W @ 28.8V	2
uel power per tracker (W)	1200	2300	
	95%	96%	
	>99.5%		
	a) output short circuit, b) overload, c) battery voltage too d) battery voltage too low, e) temperature too high, f) input voltage		
	16	16	
	4ms (<15ms in Weak AC source Mode)		
	a) output short circuit, b) overload, c) battery voltage too high, d) batt e) temperature too high, f) input voltage out of range, g) input voltage n block		
n. Port	RS485		
	1x (30Vdc/3A or 250Vac/3A)		
re range	-20°C to 65°C		
operation	95% without condensation		
	2000		

Series name	RiiO Sun II							
Model	2KVA-M	3KVA-M	3KVA-S	4KVA-S	5KVA-S	6KVA-S	8KVA-S	8KVA-S Pro
Power Assist	Yes							
AC input voltage range (VAC)	175~265							
AC input Frequency range (Hz)	45~65							
AC input Current (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%							
Cont. output power at 25°C (VA)	2000	3000	3000	4000	5000	6000	8000	8000
Max output power at 25°C (W)	2000	3000	3000	4000	5000	6000	8000	8000
Peak power (W)	4000	6000	6000	8000	10000	12000	16000	16000
Maximum efficiency	91%	91%	93%	93%	94%	94%	95%	95%
Zero load power (W)	13	17	17	19	22	25	32	32
Charger								
Charge voltage 'absorption' (V)	28.8		57.6					
Charge voltage 'float' (V)	27.6		55.2					
Battery types	AGM / GEL / OPzV / Lead-Carbon / Flooded / Traction / Lithium							
Max AC charge current (A)	40	70	35	50	60	70	90	90
Temperature compensation	Yes							
Solar Charge Controller								
Max output current (A)	80		60		100 (50 per tracker)		120 (60 per tracker)	
Maximum PV open circuit voltage (V)	150		250		250			
MPPT voltage range (V)	40~145		65~245		65~245			
Number of MPPT trackers	1		1		2			
Maximum PV input current per tracker (A)	36		36		36 + 36			
Maximum PV short circuit current per tracker (A)	40		40		40 + 40			
Maximum charge power	2300W @ 28.8V		3450W @ 57.6V		5760W @ 57.6V total 2880W @ 57.6V per tracker		6900W @ 57.6V total 3450W @ 57.6V per tracker	
Allowable maximum PV panel power per tracker (W)	3600		5200		4400 + 4400		5200+5200	
Maximum efficiency	98%							
MPPT efficiency	>99.5%							
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							
General data								
AC Out1 Current (A)	32				50			
Smart Port Current (A)	N/A				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							
Configurable relay	1x (30Vdc/3A or 250Vac/3A)							
Operating temperature range	-20°C to 65°C							
Relative humidity in operation	95% without condensation							
Altitude (m)	2000							
Mechanical Data								
Dimension (mm) (max)	499*272*144				570*310*154		620*320*164	
Net Weight (kg)	14	18	18	20	29	31	34	
Cooling	Forced fan							
Protection index	IP21							
Standards								
Safety	EN-IEC 62477-1, EN-IEC 62109-1, EN-IEC 62109-2							
EMC	EN-IEC 61000-6-1, EN-IEC 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-3-11, EN 61000-3-12							
Grid regulation	RD 1699, NRS 097							