

Soltaro AC Retro Inverter Series

Hybrid series with IP21

Retrofit seamlessly with installed PV inverters

Compact "all-in-one" system

Smart Grid, Back-Up, Off/On Grid

Intelligent storage management

Seamless switchover to keep your power on during outage

Australian designed and engineered



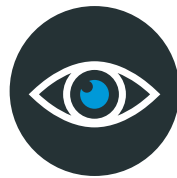
10 Year
Warranty



Local &
Remote
Monitoring



Plug and Play



Contemporary
Design



Expert
Engineering



Clean Energy

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Retro 2000/3000

AC Ratings	Retro 2000	Retro 3000
Rated AC Power	2000VA	3000VA
Rated AC Voltage	230V a.c.	
AC Voltage Range	180V~264V a.c.	
Rated AC Frequency	50Hz/60Hz	
Max. AC Current to Grid (Feed Back Current)	8.7A a.c.	13A a.c.
Max. AC Current from Grid (Bypass + Grid Charge)	17.4A a.c.	26A a.c.
Max. Output Overcurrent Protection	25A a.c.	32A a.c.
Power Factor Range	-0.8~+0.8	
Total Harmonic Distortions (I)	<3%	
Inrush Current (Peak/Duration)	120A/32us	
Max. Output Fault Current (Peak/Duration)	200A/10ms	

EPS Ratings	Retro 2000	Retro 3000
EPS Rated Power	2000VA	3000VA
Overload Capacity	1.1 x P _{nom} , 10 sec; 1.5 x P _{nom} , 100 ms	
EPS Rated Voltage	230V a.c.	
EPS Rated Frequency	50Hz / 60Hz	
EPS Rated Current	8.7A	13A
Changeover Time	<2s in EPS Mode, 10~20ms in UPS Mode	
Total Harmonic Distortion (V)	< 3%	
Parallel Operation	No	

Battery Ratings	Retro 2000	Retro 3000
Battery Type	Lithium	
Rated Battery Voltage	48V d.c.	
Battery Voltage Range	40~60V d.c.	
Max. Charge Current	40A d.c.	60A d.c.
Max. Discharge Current	40A d.c.	60A d.c.
PS Max. (per CEI 0-21)	1900W	2800W
PC Max. (per CEI 0-21)	2000W	3000W
Galvanic Isolation for Battery	YES	
Communication Interfaces	CAN/RS485	

Efficiencies	Retro 2000	Retro 3000
MPPT Efficiency	99.9%	99.9%
Euro Efficiency	97.0%	97.0%
Max. Efficiency	97.5%	97.5%
Max. PV to Bat. Efficiency	95%	95%
Max. PV to AC Efficiency	94%	94%

Protections	Retro 2000	Retro 3000
OVP/UVF	YES	YES
OCP/OLP	YES	YES
PV Insulation Protection	YES	YES
Grounding Fault Monitoring	YES	YES
Grid Protection	YES	YES
DC Injection Protection	YES	YES
Back Feed Current Monitoring	YES	YES
Residual Current Detection	YES	YES
Anti-islanding Protection	YES	YES

General	Retro 2000	Retro 3000
Dimensions (LxHxD)	415*560*145mm	
Weight	28kg	28kg
Mounting Type	Wall Mount	
Operating Temperature	-20~+60 Degree C	
Storage Temperature	-20~+60 Degree C	
Humidity	4%~100%, Condensing	
Ingress Protection	IP65 (outdoor)	
Protective Class	I	
Over Voltage Category	III (mains), II(PV)	
Pollution Degree	III	
Cooling Method	Natural	
Noise Level	<40dB	

Certificates and Grid Regulations

EMC:	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN61000-4-16, EN61000-4-18, EN61000-4-29
Safety:	IEC/EN62109-1 & -2, IEC62040-1
Grid Regulations:	G83/2, G59/3, AS/NZS4777.2, C10/11, CEI 0-21, RD1699, C 15-712-1; VDE-AR-N 4105, EN50438/NL; EN50438/IE.

Retro 3680/4600/5000

AC Ratings	Retro 3680	Retro 4600	Retro 5000
Rated AC Power	3680VA	4600VA	5000VA
Rated AC Voltage	230V a.c.		
AC Voltage Range	180V~264V a.c.		
Rated AC Frequency	50Hz/60Hz		
Max. AC Current to Grid (Feed Back Current)	16A a.c.	20A a.c.	21.7A a.c.
Max. AC Current from Grid (Bypass + Grid Charge)	30A a.c.	30A a.c.	30A a.c.
Max. Output Overcurrent Protection	40A a.c.	40A a.c.	40A a.c.
Power Factor Range	-0.8~+0.8		
Total Harmonic Distortions (I)	<3%		
Inrush Current (Peak/Duration)	120A/32us		
Max. Output Fault Current (Peak/Duration)	200A/10ms		

EPS Ratings	Retro 3680	Retro 4600	Retro 5000
EPS Rated Power	4000VA	5000VA	5000VA
Overload Capacity	1.1 x P _{nom} , 10 sec; 1.5 x P _{nom} , 100 ms		
EPS Rated Voltage	230V a.c.		
EPS Rated Frequency	50Hz/60Hz		
EPS Rated Current	17.4A	21.7A	21.7A
Changeover Time	2s in EPS Mode, 10ms in UPS Mode		
Total Harmonic Distortion (V)	< 3%		
Parallel Operation	No		

Battery Ratings	Retro 3680	Retro 4600	Retro 5000
Battery Type	Lithium		
Rated Battery Voltage	48V d.c.		
Battery Voltage Range	40~60V d.c.		
Max. Charge Current	60A d.c.	100A d.c.	100A d.c.
Max. Discharge Current	60A d.c.	100A d.c.	100A d.c.
PS Max. (per CEI 0-21)	2800W	4600W	4700W
PC Max. (per CEI 0-21)	3600W	4600W	5000W
Galvanic Isolation for Battery	YES		
Communication Interfaces	CAN/RS485		

Efficiencies	Retro 3680	Retro 4600	Retro 5000
MPPT Efficiency	99.9%	99.9%	99.9%
Euro Efficiency	97.0%	97.0%	97.0%
Max. Efficiency	97.5%	97.5%	97.5%
Max. PV to Bat. Efficiency	95%	95%	95%
Max. PV to AC Efficiency	94%	94%	94%

Protections	Retro 3680	Retro 4600	Retro 5000
OVP/UVF	YES	YES	YES
OCP/OLP	YES	YES	YES
PV Insulation Protection	YES	YES	YES
Grounding Fault Monitoring	YES	YES	YES
Grid Protection	YES	YES	YES
DC Injection Protection	YES	YES	YES
Back Feed Current Monitoring	YES	YES	YES
Residual Current Detection	YES	YES	YES
Anti-islanding Protection	YES	YES	YES

General	Retro 3680	Retro 4600	Retro 5000
Dimensions (LxHxD)	415*675*145mm		
Weight	33kg	35kg	35kg
Mounting Type	Wall Mount		
Operating Temperature	-20~+60 Degree C		
Storage Temperature	-20~+60 Degree C		
Humidity	4%~100%, Condensing		
Ingress Protection	IP65 (outdoor)		
Protective Class	I		
Over Voltage Category	III (mains), II(PV)		
Pollution Degree	III		
Cooling Method	Natural		
Noise Level	<40dB		