



SOLTARO
POWERING THE FUTURE WITH SOLAR

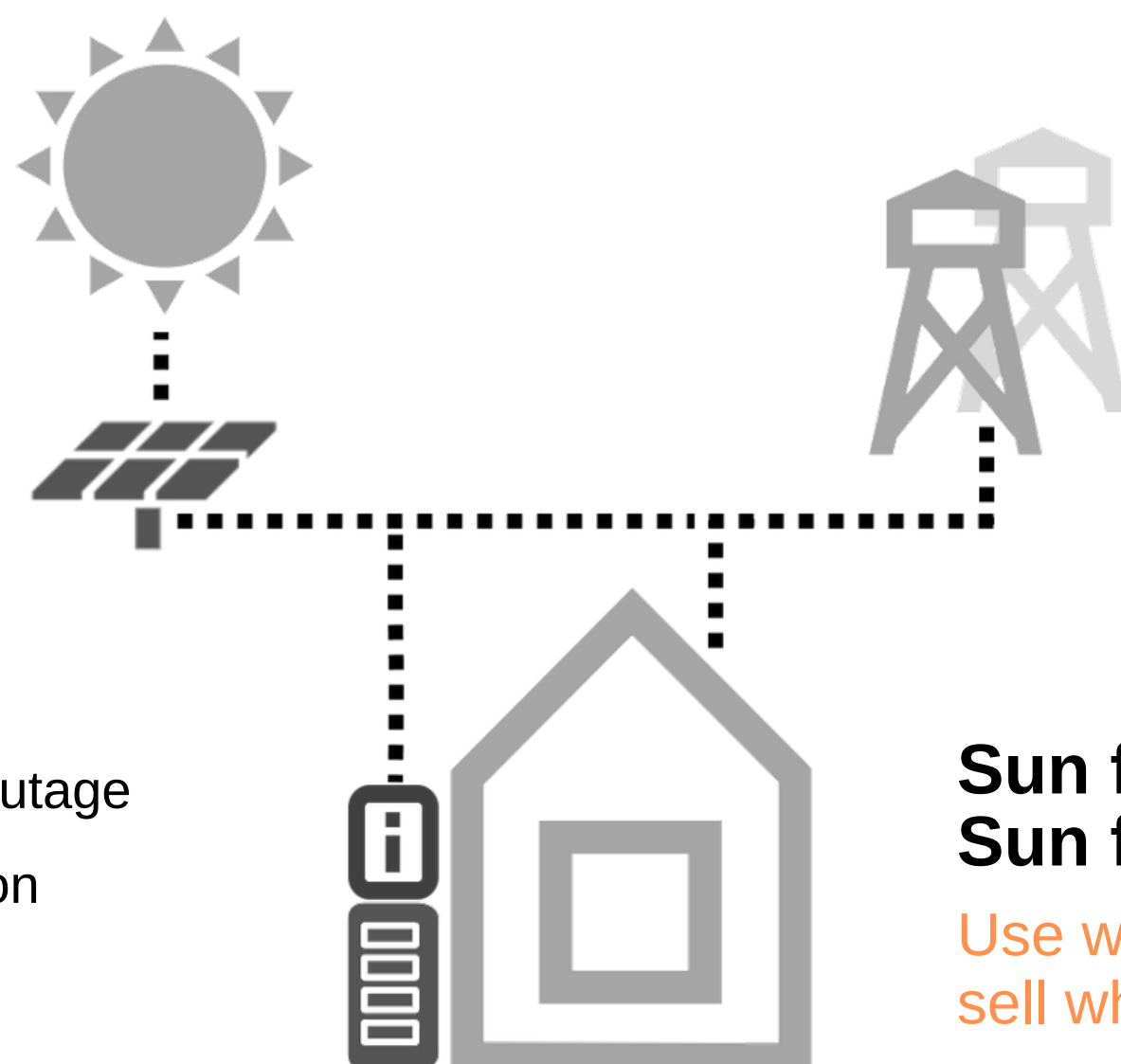


The future of clean energy is here.

Discover the Soltaro AC Retro Inverter Series

Soltaro AC Inverter Series

- Natural Convection,
- IP 65 for Indoor and Outdoor Installation
- 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
- Simplicity of use and operation “Plug&Play” Installation
- Local and remote monitoring
- Australian Designed and Engineered



**Sun for you,
Sun for me.**

Use what you need,
sell what you don't.

AC Coupled-Retro Series

Technical Specifications

DEVICE SHORT NAME	Retro-3KW	Retro-3.68KW	Retro-5KW
AC OUTPUT DATA (ON-GRID)			
Nominal Apparent Power Output to Utility Grid [VA]	3000 VA	3680 VA	VA
Maximum Apparent Power Output to Utility Grid [VA]*	3000 VA	3680 VA	5100 VA
Max. Apparent Power from Utility Grid [VA]	6000 VA	7360 VA	9200 VA
Nominal Output Voltage [V]	230 V	230 V	230 V
Nominal Output Frequency [HZ]	50/60 HZ	50/60 HZ	50/60 HZ
Max. AC Current Output to Utility Grid [A]	16 A	16A	24.5 A*
Max. AC Current From Utility Grid [A]	32 A	32A	40 A
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)		
Output THDi [@Nominal Output]	<3%	<3%	<3%

EPS POWER OUTPUT (BACK-UP)			
Max. Output Apparent Power [VA]	3000VA	3680 VA	5000 VA
Peak Output Apparent [VA]*	4.5KVA, 10S; 9KVA, 100MS	5.52KVA, 10S; 11KVA, 100MS	6.5 KVA, 10S; 15 KVA, 100MS
Max. Output Current [A]	16 A	16 A	21.7 A
Nominal Output Voltage [V]	230(±2%)	230(±2%)	230(±2%)
Nominal Output Frequency [HZ]	50/60(±2%)	50/60(±2%)	50/60(±2%)
Output THDv [@Linear Load]	<3%	<3%	<3%

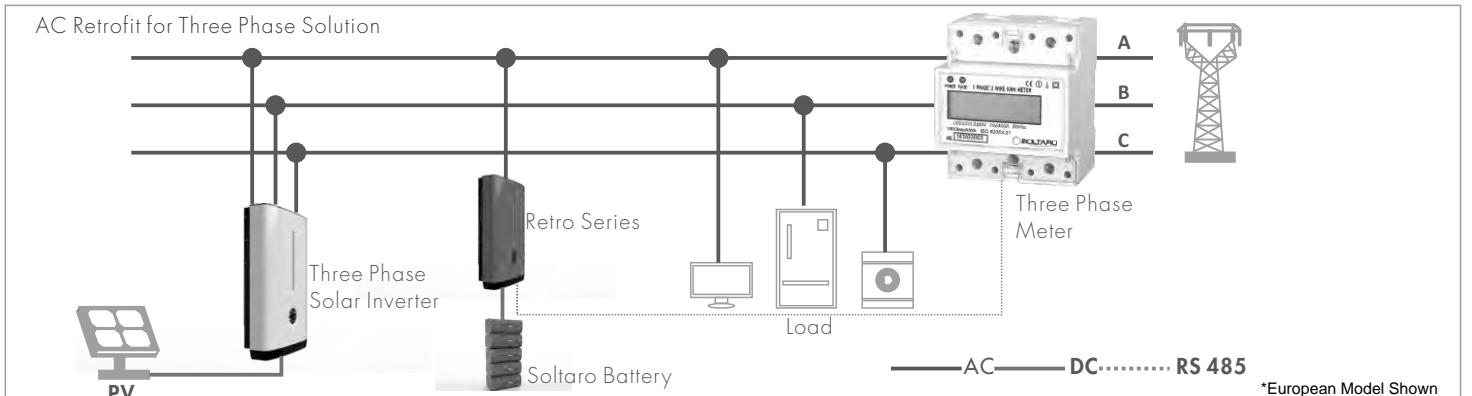
BATTERY INPUT DATA			
Battery Type	Lead-Acid, ^{a1} Lithium-ion		
Nominal Battery Voltage	48V	48V	48V
Battery Voltage Range	40-60V	40-60V	40-60V
Galvanic Isolation for Battery	YES	YES	YES
Max. Charge Current	60A	60A	100A
Max. Discharge Current	60A	60A	100A
Protection	Over Voltage, Less Voltage, Over Current, Short Circuit, Over Temperature		
Depth of Discharge	Lithium-ion: 0~100% DOD Adjustable, Lead-acid: 0~50% DOD Adjustable		

PROTECTION			
Anti-islanding Protection	YES	YES	YES
Output Over Current Protection	YES	YES	YES
Output Short Protection	YES	YES	YES
Output Over Voltage Protection	YES	YES	YES

EFFICIENCY			
Max. Efficiency	95.5%	95.5%	95.5%
Standby Power Losses	<0.5W	<0.5W	<0.5W
Topology	High Frequency Isolation	High Frequency Isolation	High Frequency Isolation

GENERAL DATA			
Dimensions(W*H*D)(mm)	414*540*145mm	414*672*145mm	414*672*145mm
Net Weight(KG)	28kg	28kg	35kg
Protection Degree	IP 65	IP 65	IP 65
Mounting Information	Wall Bracket	Wall Bracket	Wall Bracket
Operation Temperature Range [°C]	-20°C~+60°C(45°C derating)	-20°C~+60°C(45°C derating)	-20°C~+60°C(45°C derating)
Noise Emission (typical) [dB]	<25db	<25db	<25db
User Interface	APP	APP	APP
Communication with BMS ^{a3}	RS 485 & CAN	RS 485 & CAN	RS 485 & CAN
Communication with Meter	RS 485	RS 485	RS 485
Communication with Portal	Wi-Fi	Wi-Fi	Wi-Fi
Relative Humidity [%]	0~95%	0~95%	0~95%
Site Altitude [m]	<4000m	<4000m	<4000m
Cooling Concept	Natural Convection	Natural Convection	Natural Convection

CERTIFICATIONS& STANDARDS	
Grid Regulation	VDE-AR-N 4105, VDE0126-1-1, AS4777.2, G83/2, G59, CEI 0-21, NRS 097-2-1, En50438
Safety Regulation	IEC/EN62109-1&2, IEC62040-1
EMC Standard	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN61000-4-16, EN61000-4-18, EN61000-4-29
WARRANTY	5-10 years standard warranty (depend on territory)



^{a1} Lead-acid battery use refers to Approved Battery Options Statement.
The actual charge and discharge current also depends on the battery.
^{a2} 4600 for VDE 0126-1-1 & VDE-AR-N4105, 4950 for AS4777.2; 4050 for CEI 0-21

^{a3} 21.7A for AS 4777.2
^{a4} Can be reached only if PV and battery power is sufficient
^{a5} The standard configuration is CAN