SOLTARO

POWERING THE FUTURE WITH SOLAR

The future of clean energy is here.

Discover the Soltaro Hybrid Inverter Series

Soltaro Hybrid Inverter Series

Natural Convection

IP 65 for Indoor and Outdoor Installation

Compact “all-in-one” system

Smart Grid, Back-Up, Off/On Grid

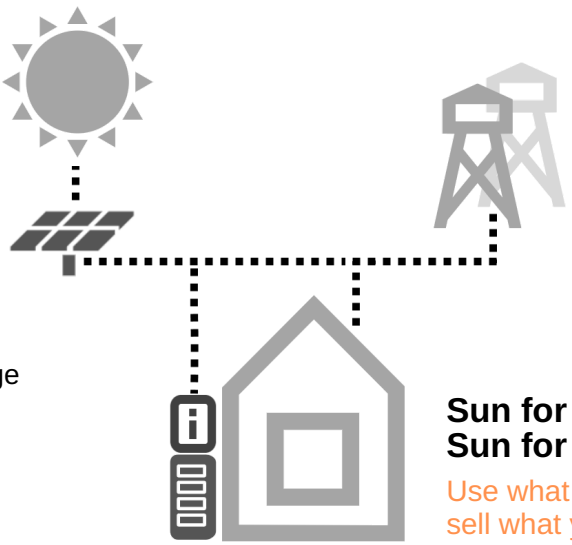
Intelligent storage management

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.

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Hybrid Inverter-Hyper Series

Technical Specifications

DEVICE SHORT NAME	Hyper-3KW	Hyper-3.68KW	Hyper-5KW
PV STRING INPUT (DC)			
Max. DC Input Power [W]	3900W	4600W	6500W
Max. DC Input Voltage [V]	580V	580V	55V
MPPT Voltage Range [V]	125V~500V	125V~500V	125V~500V
Max. input current [A]	12.0A	11.0A/11.0A	10.0A/10.0A
Max. short circuit current [A]	15.0A	14.0A/14.0A	14.0A/14.0A
NO. of MPP Trackers	1	2	2
Strings per MPP Tracker	2	1	1
Galvanic Isolation for PV Modules	NO	NO	NO
BATTERY INPUT SIDE			
Battery Type		Lead-Acid*1, 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*1	60A	60A	100A
Max. Discharge Current*1	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		
GRID AC OUTPUT(ON-GRID)			
Nominal Apparent Power Output to Utility Grid [VA]	3000 VA	3680 VA	5000 VA
Maximum Apparent Power Output to Utility Grid [VA]*2	3000 VA	3680 VA	5000 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	21.7A *3
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 AC OUTPUT DATA(BACK-UP)			
Max. Output Apparent Power [VA]	3000VA	3680 VA	5000 VA
Peak Output Apparent [VA]*4	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%
EFFICIENCY			
MPPT Efficiency	99.9%	99.9%	99.9%
Euro Efficiency	97.0%	97.0%	97.0%
Max. Efficiency	97.8%	97.8%	97.8%
Max. Battery to Load Efficiency	95%	95%	95%
Standby Power Losses	<0.5W	<0.5W	<0.5W
Topology	High Frequency Isolation	High Frequency Isolation	High Frequency Isolation
PROTECTION			
Anti-islanding Protection	YES	YES	YES
PV Sting Input Reverse Polarity Protection	YES	YES	YES
Insulation Resistor Dection	YES	YES	YES
Residual Current Monitoring Unit	YES	YES	YES
Output Over Current Protection	YES	YES	YES
Output Short Protection	YES	YES	YES
Output Over Voltage Protection	YES	YES	YES
GENERAL DATA			
DC Switch	Optional	Optional	Optional
Dimensions(L*W*H)(mm)	480*520*173mm	480*520*173mm	480*520*173mm
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 [℃]	-20℃~+60℃(45℃ derating)	-20℃~+60℃(45℃ derating)	-20℃~+60℃(45℃ derating)
Noise Emission (typical) [dB]	<25db	<25db	<25db
User Interface	APP	APP	APP
Communication with BMS*5	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 (depending on region)		

*1 Lead-acid battery use refers to Approved Battery Options Statement.
The actual charge and discharge current also depends on the battery.

*2 4600 for VDE 0126-1-1 & VDE-AR-N4105, 4950 for AS4777.2; 4050 for CEI 0-21

*3 21.7A for AS 4777.2 .

*4 Can be reached only if PV and battery power is sufficient

*5 The standard configuration is CAN

Made In China