



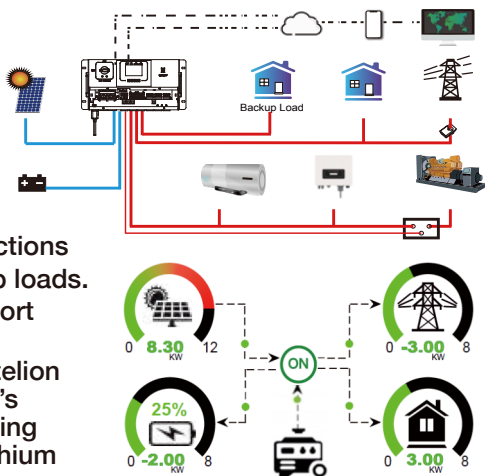
ECO ENERGYTECH

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Unity 8i-8.8-10.4-16-AU Unity 5i-5.5-6.5-10-AU

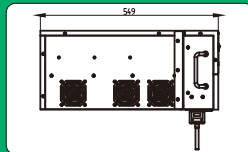
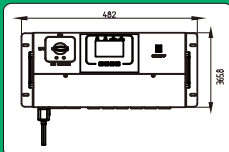
Features

- On grid, off grid and UPS.
- Full Touchscreen LCD Config.
- Mains or generator power.
- Smart battery charger design.
- Export restriction, peak shaving
- WIFI monitoring, 2 MPPT trackers
- Time of use and Smart Load functions
- 50A Grid pass through to backup loads.
- Overload / over temperature / short circuit protection.
- Designed for Sony's Lithium Fortelion cell and recognised by Canberra's Government funded Battery Testing Centre as the best performing lithium battery on the Australian market.



Model	Unity 5i-5.5-6.5-10-AU	Unity 8i-8.8-10.4-16-AU
Battery Input Data		
Battery Type	Lead-acid or Li-Ion	
Battery Voltage Range(V)	40-60V	
Max. Charging Current(A)	120A	190A
Max. Discharging Current(A)	120A	190A
Charging Curve	3 Stages / Equalization	
External Temperature Sensor	Optional	
Charging Strategy for Li-Ion Battery	Self-adaption to BMS	
PV String Input Data		
Max. Input Power convertible(W)	6500W	10400W (can install up to 18800w)
PV Input Voltage(V)	370v (100V to 500V)	
MPPT Range(V)	125 to 425V	
Start-up Voltage(V)	150V	
PV Input Current(A) / (Isc)	11A + 11A / (16.5 A+16.5A Isc)	18A +18A / (27.5A+27.5A Isc)
No. of MPPT Trackers	2	
No. of Strings Per MPPT Tracker	1+1	2+2

Model	Unity 5i-5.5-6.5-10-AU	Unity 8i-8.8-10.4-16-AU
AC Output Data		
Rated AC Output	5000	8000
Max. AC Output Power (W)	5500	8800
Peak Power (Watts off grid)	10000w / 10sec	16000w / 10 sec
AC Output Rated Current (A)	21.7A	35A
Max. AC Current (A)	25A	40A
Max. Cont. AC Passthrough (A)	35A	50A
Power Factor	0.8 leading to 0.8 lagging	
Output Frequency and Voltage	50Hz; 400Vac (3 phase), 230Vac (single phase)	
Grid Type	3 phase; Single Phase	
Current Harmonic Distortion	THD<3%(Linear load<1.5%)	
Efficiency		
Max. Efficiency	97.60%	
Euro Efficiency	97.00%	
MPPT Efficiency	99.90%	
Protection		
PV Arc Fault Detection	Integrated	
PV Input Lightning Protection	Integrated	
Anti-islanding Protection	Integrated	
PV String Input Reverse Polarity Protection	Integrated	
Insulation Resistor Detection	Integrated	
Residual Current Monitoring Unit	Integrated	
Output Over Current Protection	Integrated	
Output Shorted Protection	Integrated	
Surge Protection	DC Type II / AC Type II	
Certifications and Standards		
Grid Regulation	UL1741, IEEE1547, RULE21, AS4777.2, NRS2017, G98, G99	
Safety Regulation	IEC62109-1, IEC62109-2	
EMC	EN61000-6-1, EN61000-6-3, FCC15 class B	
General Data		
Operating Temperature Range (C)	-25~60C, >45C Derating	
Cooling	Smart cooling	
Noise (dB)	<30 dB	
Communication with BMS	RS485; CAN	
Weight (kg)	42	
Size (mm)	549W×365.8H×482D (wifi antenna can be repositioned)	
Protection Degree	IP20	
Installation Style	Rack or cabinet installation	
Warranty	5 years (upgradeable to 20 years)	



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