

### DESCRIPTION

Monobloc heat pump with special integrated design, is the best choice for sanitary hot water supply. You can place it in both indoor basement/kitchen and outdoor balcony with simple installation. The heating efficiency is 3 time higher than traditional gas/electrical water heater, which will obviously save your cost.



### FEATURES

- High Efficiency Panasonic Compressor
- Electronic Expansion Valve
- 5 protection programs for safe use
- Intelligent controlling system
- SS304 water tank, Anti-corrosion
- Magnesium anode protection
- Auto-defrosting
- Low noise and vibration
- Easy installation
- R417a or R134a refrigerant, ECO friendly
- Auxiliary electrical heating
- Solar coil combination
- SS316L water tank
- Enamel water tank



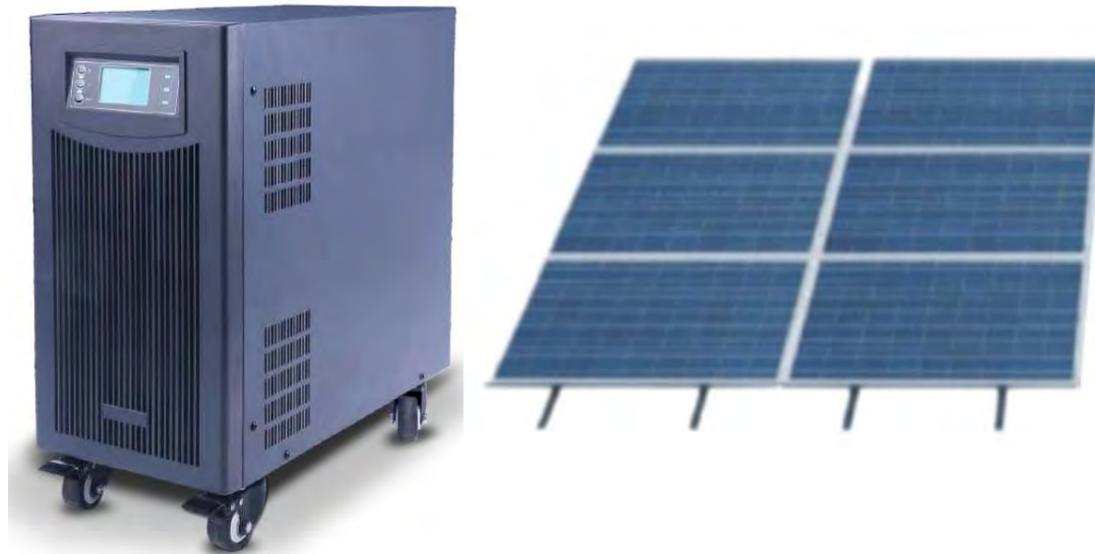
### OPTIONAL

### DIAGRAM



Model No.	Unit	K35 150WL	K35 200WL	K35 250WL
Rated heating capacity	W	3500	3500	3500
	BTU/H	12000	12000	12000
Rated input power	W	850	850	850
COP		4.1	4.1	4.1
Running current	A	3.9	3.9	3.9
Auxiliary heating (optional)	W	2000	2000	2000
Rated water yield	L/h	75	75	75
Rated outlet water temp	°C	55	55	55
Max outlet water temp	°C	60	60	60
Power supply	V/Ph/Hz	220-240/1/50		
Compressor		Panasonic Rotary		
Refrigerant		R417a (R134a for option)		
Fan motor input	W	30	30	30
Fan speed	RPM	870	870	870
Noise	dB(A)	48	48	48
Tank volume	L	150	200	250
Water tank material		SS304/316L Enamel		
Water connections	Inch	G3/4"		
Unit dimension	mm	Φ 510	Φ 570	Φ 570
	mm	1660	1750	2050
Net Weight	kg	75	86	98
Loading qty (20GP/40HQ)	PCS	26/54	24/48	24/48
Measuring conditions		Ambient temperature DB20°C/WB15°C; to heat initial water temperature from 15°C to 55°C		

# UTICA® Solar MobileGrid 1500-1500



<p><b>Flexible</b></p> <ul style="list-style-type: none"> <li>• For systems from 500W to 5000W</li> <li>• 1phase operation, connectable in parallel and modularly extendable</li> <li>• AC and DC coupling</li> </ul>	<p><b>Simple</b></p> <ul style="list-style-type: none"> <li>• Easy commissioning with the "Quick Configuration Guide"</li> <li>• Complete off &amp; on-grid management</li> </ul>	<p><b>Efficient</b></p> <ul style="list-style-type: none"> <li>• High efficiency</li> <li>• Intelligent battery management for maximum battery life</li> <li>• Charge level calculation</li> </ul>	<p><b>Robust</b></p> <ul style="list-style-type: none"> <li>• Extreme overload capability</li> <li>• Proactive temperature management system</li> <li>• 2-year warranty</li> </ul>
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## Solar Powered Generator

UTICA® Solar MobileGrid is an off-grid solar power system that works 24-hours a day, powered by photovoltaic modules, complementing your existing energy consumption and hence, reducing electricity bills and carbon footprint.

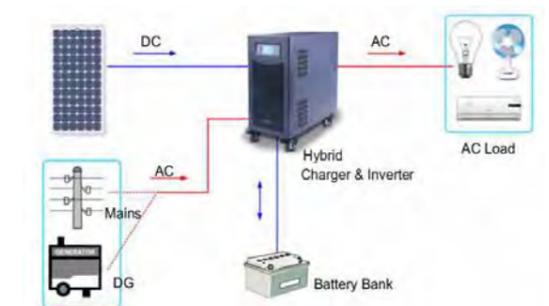
The easy deployable system makes commissioning within minutes possible. All required operational settings can be made quickly and easily in just a few steps. The UTICA® MobileGrid is powerful, extendable and takes on all control processes.

Its first-class intelligent power processing unit ensures maximum battery life. It also features impressive efficiency, a rugged metal enclosure and active cooling system. With an output rating of 230V and 50 Hz, the UTICA® MobileGrid is designed perfect

Technical Data	MobileGrid 1500-1500
<b>Solar panel</b>	
Max power	1500W
Power/day	5250WH
<b>AC output (Loads)</b>	
Nominal AC voltage (adjustable)	230V
Nominal frequency (adjustable)	50HZ
Continuous AC power at 25 °C / 45 °C (77 °F / 113 °F)	1500 W
THD output voltage / power factor (cos φ)	<5%
<b>AC input (generator or grid)</b>	
AC input voltage (range)	230V
AC input frequency (range)	50HZ
<b>Battery DC input</b>	
Battery voltage (range)	48V
Max. battery charging current / continuous charging current at 25 °C (77 °F)	120 A / 100 A
Battery type	lead-acid battery / lithium battery
Capacity	48V,100Ah (4 pcs 12V100Ah)
<b>Efficiency / operating consumption</b>	
Max. efficiency	85%
Internal consumption with no load / standby	25 W / 4 W
<b>Protection devices</b>	
DC reverse polarity protection / DC fuse	●/●
AC short-circuit / AC overload	●/●
Overtemperature / excessive battery discharge	●/●
<b>General data</b>	
Inverter Dimensions (W / H / D) in mm (in)	580 x 560 x 857
Inverter Weight	11 KG
Operating temperature range	-25 °C ... +50 °C (-13 ° F ... +122 °F)
Protection rating (as per IEC 60529)	indoors
Each 12V100Ah Battery Size	lead-acid battery:332x174x239 mm (30kg) / lithium battery:306x168x216 mm (13kg)
Battery Box Size (Optional)	586 x 556 x 290 mm (1 set can put 4 pcs 12V100Ah battery)
<b>Features / function</b>	
Operation & display / multifunction relays	internal / 2
3-phase systems / parallel connection	●/●
Integrated bypass / multicuster operation	—/●
Charge level calculation / full- / equalization charge	●/●/●
Integrated soft start / generator support	●/●
Battery temperature sensor / communication cables	●/●
Warranty: 2 / 5 / 10 / 15 years	●/○/○/○/○
Certificates and permits	<a href="http://www.utica.sg">www.utica.sg</a>
<b>Accessories</b>	
Battery cables / battery fuses	○/○
Interfaces (RS485 / Multicuster PB)	○/○
"GenMan" extended generator start	○
Load-shedding contactor / battery current measurement	○/○
● Standard features ○ Optional features — Not available	
Last revision: January 2015	
Remarks	System integrated controller & inverter, simply connect the solar panels and batteries to the system, the system can work, easy for use. Structure for inverter is low frequency, and that for controller is PWM.

## UTICA PV Mobile Grid 1200 Series

- System capacity 1.2 kVA
- Indoor system
- Emergency backup power for communications
- Digital LED display indicates battery capacity status and total wattage
- UPS built-in
- Continuous electricity
- Surge protections
- 30m PV cable
- Integrated handles



Solar Off-grid System



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