



# YMGI

## Solar Products Line Card

### November 6, 2020

**YMGI Group**



# YMGI LED Panel Lighting

## Applications

- Home, Office, School, Retail, Medical, Hospitality and any other interior applications.

## Features

- Uses 75% less electricity than a conventional CFL light fixture using the latest LED lighting technology offers the highest return on initial investment.
- Perfect Light Uniformity, up to 105 LM/W.
- 0-10V dimmable driver, DLC4.0 standard.

## LED Characteristics

- Long-life, High efficiency, micro-power, surface mount LEDs
- Binned and mixed for uniform light output and color.
- 6-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color.

## Certifications

- UL listed to US and Canadian standards.
- DLC 4.0 qualified.

## Dimming

- 0-10v dimming system, dimming scope 10%-100%

## Electrical

- 110-277v
- 50/60Hz
- THD <20%
- Power Factor >0.95

## Quality Control

- Every fixture is rigorously tested before shipping.

## Lifetime

- Lifetime 50000H @L70

## Thermal Management

Strategic placement of the power source, and a radiator the size of the entire fixture alleviate heat concentration issues, preventing hot spots found in lights with smaller radiators. This enables the LEDs to consistently run cooler, increasing the lifespan, efficiency, and color consistency.



Models	Image	Dimensions	Color Temperature	Input Watts	Lumens	Lum./W	Certificates	Remarks		
YMPL-14W3000-40W4KL		1x4'	3000K	40	4000	100	UL, DLC4.0 Standard	Lumens tolerance ±5%, 5 year warranty-parts only		
YMPL-14W4000-40W4KL			4000K							
YMPL-14W5000-40W4KL			5000K							
YMPL-14W3000-40W5KL			3000K		5000	125			UL, DLC4.0 Premium	
YMPL-14W4000-40W5KL			4000K							
YMPL-14W5000-40W5KL			5000K							
YMPL-22W3000-40W4KL		2x2'	3000K	40	4000	100	UL, DLC4.0 Standard	Lumens tolerance ±5%, 5 year warranty-parts only		
YMPL-22W4000-40W4KL			4000K							
YMPL-22W5000-40W4KL			5000K							
YMPL-22W3000-40W5KL			3000K		5000	125			UL, DLC4.0 Premium	
YMPL-22W4000-40W5KL			4000K							
YMPL-22W5000-40W5KL			5000K							
YMPL-24W3000-40W5KL		2x4'	3000K	40	5000	125	UL, DLC4.0 Premium	Lumens tolerance ±5%, 5 year warranty-parts only		
YMPL-24W4000-40W5KL			4000K							
YMPL-24W5000-40W5KL			5000K							
YMPL-24W3000-50W5KL			3000K	50	5000	100			UL, DLC4.0 Standard	Lumens tolerance ±5%, 5 year warranty-parts only
YMPL-24W4000-50W5KL			4000K							
YMPL-24W5000-50W5KL			5000K							
YMPL-24W3000-50W6KL			3000K	50	6000	120	UL, DLC4.0 Premium	Lumens tolerance ±5%, 5 year warranty-parts only		
YMPL-24W4000-50W6KL			4000K							
YMPL-24W5000-50W6KL			5000K							
YMPL-24W3000-60W6KL			3000K	60	6000	100			UL, DLC4.0 Standard	Lumens tolerance ±5%, 5 year warranty-parts only
YMPL-24W4000-60W6KL			4000K							
YMPL-24W5000-60W6KL			5000K							
YMPL-24W3000-60W7KL			3000K	60	7000	116	UL, DLC4.0 Premium	Lumens tolerance ±5%, 5 year warranty-parts only		
YMPL-24W4000-60W7KL			4000K							
YMPL-24W5000-60W7KL			5000K							

Voltage AC100-277, dimmable (0-10v), Ra>80, PF≥0.95

Working ranges: Temperature -4°F~122°F, Relative Humidity 20%~85%.

# Solar Panels MonoCrystalline PV Module



- **Power Rating: 305W**
- **Frame color: Black**
- **Number of cells: 60 cells**
- **Frame Size: 35 mm**
- **Cell Type: Monocrystalline / N-type**
- **Tier 1**

#### Safety

- Protection against salt mist corrosion
- Protection for ammonia corrosion
- Product is certified by UL1703





#### Performance

- Withstand high system voltage up to 1500V to save BoS Cost
- Outstanding power output capability at low irradiance
- Withstand up to 2400Pa wind and 5400Pa snow loads, long lasting

Module Type		SOLAR PANEL-PV-MC305BB			
Characteristics		Mechanical Specifications		Electrical Characteristics (NOCT)	
Maximum Power at STC -P <sub>mp</sub> (W)	305	Dimensions	64.57 x 39.06 x 1.37 in.	Maximum Power at NOCT -P <sub>mp</sub> (W)	226
Open Circuit Voltage -V <sub>oc</sub> (V)	39.9	Weight	17.5 kg / 38.5 lbs	Open Circuit Voltage -V <sub>oc</sub> (V)	36.8
Short Circuit Current -I <sub>sc</sub> (A)	9.76	Solar Cells	Monocrystalline, 6 inch (60pcs.)	Short Circuit Current -I <sub>sc</sub> (A)	7.91
Maximum Power Voltage -V <sub>mp</sub> (V)	32.3	Front Glass	3.2 mm tempered glass, low iron	Maximum Power Voltage -V <sub>mp</sub> (V)	30.4
Maximum Power Current -I <sub>mp</sub> (A)	9.45	Frame	Anodized aluminium alloy	Maximum Power Current -I <sub>mp</sub> (A)	7.44
Module Efficiency STC-η <sub>m</sub> (%)	18.75	Junction Box	IP67	Temperature Characteristics	
Power Tolerance (W)	(0,+4.99)	Output Cables	12AWG, cable length:1000 mm	P <sub>max</sub> Temperature Coefficient -0.38%/°C	-0.40 % / °C
Maximum System Voltage (V)	1000 or 1500(UL)	Connector	MC4 Compatible	V <sub>oc</sub> Temperature Coefficient -0.28 %/°C	-0.30 % / °C
Maximum Series Fuse Rating (A)	20			I <sub>sc</sub> Temperature Coefficient +0.05 %/°C	0.04 % / °C
Fire Performance	Type2 or Type1(UL)			Operating Temperature -40~+85 °C	-0.42 % / °C

STC: Irradiance 1000 W/m<sup>2</sup>, module temperature 25°C, AM=1.5  
 NOCT: Irradiance 800 W/m<sup>2</sup>, ambient temperature 20°C, wind speed :1m/s  
 Specifications are subject to change without further notification.



## Solar LED lights

MODELS	Image	W	LEDs	Battery	Lumens
SKUSL-60(5W)		5	60	3.6V 4000 mAh Lithium	874
SKUSL-108(10W)		10	108	7.4V 6000 mAh Lithium ion	1109
SKUSL-210(24W)		24	210	11.1V 9600 AH Lithium ion	1998
SKUSL-300(36W)		36	300	11.1V 14400 AH Lithium ion	2900







# YMGI Symphony Solo Mini Split Systems

## M1(57), M6(56), M7(78), & M8(86) Single Zone

PRODUCT NAME	SYSTEM MODELS	IMAGE	COOLING (Btu/h)			HEATING (Btu/h)			POWER	LOWEST AMB. TEMP.		SEER
			H	M	L	H	M	L		COOLING	HEATING	
Symphony Solar Assisted Wall Mount Single Zone M6 (56)	WMMS-09KS-V2B(56) ODU: WMMS-09CS-V2B(56) IDU: WMMS-09ES-V2B(56)			9000			10000		208-230/1/60	15°F	5°F	20-35
	WMMS-12KS-V2B(56) ODU: WMMS-12CS-V2B(56) IDU: WMMS-12ES-V2B(56)		14000	12000	4500	14500	13000	3250	208-230/1/60	15°F	5°F	20-34
	WMMS-18KS-V2B(56) ODU: WMMS-18CS-V2B(56) IDU: WMMS-18ES-V2B(56)		22350	18000	6000	24000	21000	4100	208-230/1/60	15°F	5°F	18-34
	WMMS-24KS-V2B(56) ODU: WMMS-24CS-V2B(56) IDU: WMMS-24ES-V2B(56)			24000			27000		208-230/1/60	15°F	5°F	18-33
	WMMS-30KS-V2B(56) ODU: WMMS-30CS-V2B(56) IDU: WMMS-30ES-V2B(56)			30000			32000		208-230/1/60	15°F	5°F	18-33
	WMMS-36KS-V2B(56) ODU: WMMS-36CS-V2B(56) IDU: WMMS-36ES-V2B(56)			36000			38000		208-230/1/60	15°F	5°F	18-32
Symphony Solar Wall Mount Single Zone M8 (86)	WMMS-09KS-V24(86) ODU: WMMS-09CS-V24(86) IDU: WMMS-09ES-V24(86)		9000	6800	3600	10000	7050	3600	DC Solar Panels & 4 Batteries	64.4°F	-4°F	≤38
	WMMS-12KS-V48(86) ODU: WMMS-12CS-V48(86) IDU: WMMS-12ES-V48(86)		12000	8750	4000	13000	9000	4000	DC Solar Panels & 4 Batteries	64.4°F	-4°F	≤38
	WMMS-18KS-V48(86) ODU: WMMS-18CS-V48(86) IDU: WMMS-18ES-V48(86)		18000	13000	6500	20000	13250	6500	DC Solar Panels & 4 Batteries	64.4°F	-4°F	≤38
	WMMS-24KS-V48(86) ODU: WMMS-24CS-V48(86) IDU: WMMS-24ES-V48(86)		24000	17250	8000	27000	17250	8000	DC Solar Panels & 4 Batteries	64.4°F	-4°F	≤38



# YMGI VRF Systems (55) Outdoor Units

PRODUCT NAME	Group Configuration	IMAGE	CAPACITY (Tons)																						
			3	4	5	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	
<b>VRF Heat Pump Ultra Heating</b>  1. Heating down to ambient -22° F. 2. Cooling down to 23° F. 3. Solar PV Panels Integrated with municipal power. 4. Qualified for Federal, State Tax Credit and Local Rebate Programs.	1 Mini / Module		mini	mini	mini	module																			
	2 Modules																								
	3 Modules																								

**Notes:**

1. Replaces Traditional "Gas/Oil Furnace+AC Coil+Condenser" Design



# YMGI VRF Systems (55) Indoor Units

TYPE	PRODUCT NAME & DESCRIPTION	IMAGE	CAPACITY (Btu/h)														
			7K	9K	12K	15K	18K	22K	24K	30K	36K	42K	48K	54K	72K	96K	
DUCTED	Fan Coil Unit Low Profile (7.9") Low Static EF-L (0.12" WC ESP)		•	•	•	•	•				•						
	Fan Coil Unit Medium Static EF-M (0.4" WC ESP)							•			•	•	•	•	•		
	Fan Coil Unit High Static EF-H (0.8" WC ESP)		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Universal Vertical or Horizontal Discharge Air Handling Unit-UC (0.32" WC ESP)							•			•	•	•	•	•	•	
	VRF Fresh Air Handler FA (1.1" WC)															•	•
DUCTLESS	Ceiling Cassettes EC4-D 4-WAY		•	•	•	•	•				•	•	•	•	•		
	Ceiling Compact Cassettes EC4-C 4-WAY		•	•	•	•	•										
	Ceiling Cassettes EC2 2-WAY			•	•	•	•				•						
	Surface High Wall Mount EW		•	•	•	•	•				•						
	Surface Low/High Wall Mount Console EL		•	•	•	•	•										
	Floor/Ceiling Mount EU			•	•	•	•				•	•	•	•	•		

**Note:**

- VRF indoor units are not interchangeable with mini split WMMS indoor units.



YMGI is dedicated to designing, manufacturing and distributing the highest quality, energy saving and environmentally friendly air conditioner and heat pump products, while providing the best service and support to all of our customers. Our mission is to help build a sustainable, efficient and green world.

- **Symphony SOLAR DC Inverter**  
(56) Single PV, (79) Single PH 12-18K Btu/h  
(86) Single Zone All DC 09-24K Btu/h  
(55) Multi Zone Solar VRF 3, 4, 8, 16, and 24 Ton.
- **Symphony SOLO DC Inverter**  
(57)2,3 Single Zone 16 SEER, 09-36K Btu/h  
(58)4, (78)1-Single Zone 18-23 SEER, 09-36K Btu/h
- **Symphony CHOIR DC Inverter**  
(46)2 DC Inverter Multiple Zone 15 SEER, 2x09K and 2x12K Btu/h  
(59)2S-DC Inverter Multiple Zone 16 SEER 6x09K to 9x09K Btu/h  
(59)4-DC Inverter Multiple Zone 21 SEER 2x09K to 5x12K Btu/h
- **Symphony VRF - DC Inverter HP, Heat Recovery, and Solar.  
Up to 64 zones.**
- **Symphony HARMONY-Packaged Self-Contained 42"x16"**  
PTAC/PTHP Electric Heater or Hot Water Coil, and VPAK
- **Symphony CONDUCTOR-Split Type Condensing Units Side Discharge  
SHCR & YTAC**

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