

SPECIFICATIONS

INPUT DATA (DC)		
Number of Modules per Inverter	One	
Nominal Input Power	320W	
STC Module Input Power Range	200 to 350W	
Maximum Input DC Voltage	60V	
Operating Voltage Range	22 to 60V	
Peak Power Tracking Voltage	24 to 45V	
Minimum Start Voltage	24V	
Maximum DC Short Circuit Current	14A	
OUTPUT DATA (AC)		
Continuous Output Power	300W	
Power Factor at Rated Power	> 0.99	
Total Harmonic Distortion (THD)	< 2%	
Nominal Frequency (Range) ¹	50 (47 to 53) Hz or 60 (57 to 63) Hz	
@208V (184-228V)	Nominal Output Current	1.44A
	Max Units per 20/30A Circuit	33/48 Balanced (DELTA)
@220V (198-242V)	Nominal Output Current	1.36A
	Max Units per 20/30A Circuit	33/51 Balanced (WYE)
@240V (211-264V)	Nominal Output Current	1.25A
	Max Units per 20/30A Circuit	12/19
@277V (244-304V)	Nominal Output Current	1.08A
	Max Units per 20/30A Circuit	42/66 Balanced (WYE)
EFFICIENCY		
Peak Inverter Efficiency	96.5%	
CEC Weighted Efficiency	96.0%	
Nominal MPP Tracking	> 99.5%	
Night Time Power Consumption	< 20mW	
MECHANICAL DATA		
Ambient Operating Temp. Range	-40 to 65°C (-40 to 149°F)	
Internal Operating Temp. Range	-40 to 85°C (-40 to 185°F)	
Dimensions (WxHxD)	195 x 268 x 34mm (7.7 x 10.6 x 1.3in)	
Weight	1.3kg (2.9lbs)	
Cooling	Natural Convection - No Fans	
Enclosure Environmental Rating	NEMA 6 / IP67	
FEATURES		
Communication	PLC	
Safety Compliances	UL 1741, FCC Part15 Class B, IEEE 1547	



When it comes to power and flexibility, Darfon has the micro inverter you've been looking for. The G320 can handle 60 or 72 cell modules and has an outstanding efficiency, THD and Power Factor. Even the choice of cabling is up to you. The G320 also features a high reliability design that continues working even if the electrolytic capacitors have problems over time. The Darfon G320 comes in four voltage options, so it can be installed in residential, commercial or utility applications.

MAXIMIZED ENERGY PRODUCTION

- Superior power factor > 0.99 and THD < 2%
- Module-level MPPT limits shading impact on array's power production
- Cloud-based monitoring via web portal and mobile app
- < 20mW nighttime consumption

FLEXIBILITY

- Up to 19 units per 30A circuit for 240V single phase
- Multiple voltage/phase configurations for residential, commercial or utility application
- Compatible with high-powered 60- and 72-cell modules
- Cable configuration up to the installer

IMPROVED SAFETY

- No external Rapid Shutdown required
- Eliminates the need for high voltage DC wiring
- Integrated grounding

RELIABILITY

- Redundancy capacitor design
- Case designed for better thermal dissipation
- Warranty³: 10- or 25-year options

CABLE OPTIONS

PART NUMBER	GAUGE	TYPE	USAGE	DROPS
5K.WKP01.234	10 AWG	Tree	Portrait	50
5K.WKP01.20G	10 AWG	Tree	Landscape	50
5K.WKP01.203	12 AWG	Tee	Portrait	1
5K.WKP01.21E	12 AWG	Tee	60C Landscape	1
5K.WKP01.21B	12 AWG	Tee	72C Landscape	1

¹ Extended frequency range available to serve local markets.

² Voltage options 208, 220, 240 & 277VAC are set at the factory.

³ Warranty varies by region. 25-year warranty period only applies to products purchased and installed in the US.

APPLICATION TO MULTI-PHASE SYSTEMS

APPLICATION	MODEL VOLTAGE ²	CONFIGURATION	G320 PART NO.
120/208V 3-Phase	208V AC	DELTA Link	JK.M320A.D01
120/240V Split-Phase	240V AC	L-L Direct	JK.M3201.D01
220/380V 3-Phase	220V AC	WYE Link	Call
277/480V 3-Phase	277V AC	WYE Link	JK.M320C.D01