



598 Patterson Blvd., Pleasant Hill, Ca USA

Tel: 800-660-4414 Fax: 925-939-9998 E-mail: info@sunriseled.us

Specification for FC 313

Issued on: 4-Jan-08

Revised on: 10-Oct-08

1. Specs

Technical Terms		Details
Module	Pixel Composition(LED)	1 Red, 1 pGreen, 1 Blue
	Pixel Pitch	20mm
	Size	320 x 320mm
	Dot array	16 x 16
	Color	Full Color
	Brightness(NIT)	3,000NITs
	Watt.(Max/Ave.)	20/ 10Watt
Controller/Driver	Driver type	1/8 duty
	Flash Memory	SAMSUNG 16M NAND Flash Memory
	CPU	Samsung S3C44BOX
LED	Grade	Super Intensity
	LED Type	Oval shape (4.0 x 5.0mm)
	Viewing angle	70deg.(Hori.) / 30deg.(Ver.)
	Luminous Intensity	Red:1800mcd pGreen:4000mcd Blue:3000mcd
	Qty/module	768pcs
Set	Module qty/set	3pcs
	Module array	1line x 3columns
	Display size(mm)	37.5 x 13in (952.5 x 330.2mm)
	Total size(case/mm)	40 x 16in (1016 x 406.4mm)
	Display Weight	10 lbs.
	Input currency	AC 88 ~ 264VAC
	Input Hz	45Hz ~ 65Hz
	Output Voltage	5V
	Watt.(Max/Ave.)	120/60watt
	Viewing Distance	6~150m / 19~492ft
	Operating Temp.	-20°C ~ 50°C / -4 ~ 122 F
	Operation	Infrared remote control
	Casing	70mm Aluminum case with Hard Plastic corners

2. Features:

- 1.Animation & Special effects are available
- 2.Designed for indoor *semi-outdoor

* LED display can be used outdoor while under a canopy, over hang, awning or any other protective covering.



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1. Specs

Technical Terms		Details
Module	Pixel Composition(LED)	1 Red, 1 pGreen, 1 Blue
	Pixel Pitch	20mm
	Size	320 x 320mm
	Dot array	16 x 16
	Color	Full Color
	Brightness(NIT)	3,000NITs
	Watt.(Max/Ave.)	20/ 10Watt
Controller/Driver	Driver type	1/8 duty
	Flash Memory	SAMSUNG 16M NAND Flash Memory
	CPU	Samsung S3C44BOX
LED	Grade	Super Intensity
	LED Type	Oval shape (4.0 x 5.0mm)
	Viewing angle	70deg.(Hori.) / 30deg.(Ver.)
	Luminous Intensity	Red:1800mcd pGreen:4000mcd Blue:3000mcd
	Qty/module	768pcs
Set	Module qty/set	4pcs
	Module array	1line x 4columns
	Display size(mm)	50 x 13in (1270 x 330.2mm)
	Total size(case/mm)	53 x 16in (1346.2 x 406.4mm)
	Display Weight	14 lbs.
	Input currency	AC 88 ~ 264VAC
	Input Hz	45Hz ~ 65Hz
	Output Voltage	5V
	Watt.(Max/Ave.)	120/60watt
	Viewing Distance	6~150m / 19~492ft
	Operating Temp.	-20°C ~ 50°C / -4 ~ 122 F
	Operation	Infrared remote control
	Casing	70mm Aluminum case with Hard Plastic corners

2. Features:

- 1.Animation & Special effects are available
- 2.Designed for indoor *semi-outdoor

* LED display can be used outdoor while under a canopy, over hang, awning or any other protective covering.

Specification for FC 315

Issued on: 4-Jan-08

Revised on: 10-Oct-08

1. Specs

Technical Terms		Details
Module	Pixel Composition(LED)	1 Red, 1 pGreen, 1 Blue
	Pixel Pitch	20mm
	Size	320 x 320mm
	Dot array	16 x 16
	Color	Full Color
	Brightness(NIT)	3,000NITs
	Watt.(Max/Ave.)	20/ 10Watt
Controller/Driver	Driver type	1/8 duty
	Flash Memory	SAMSUNG 16M NAND Flash Memory
	CPU	Samsung S3C44BOX
LED	Grade	Super Intensity
	LED Type	Oval shape (4.0 x 5.0mm)
	Viewing angle	70deg.(Hori.) / 30deg.(Ver.)
	Luminous Intensity	Red:1800mcd pGreen:4000mcd Blue:3000mcd
	Qty/module	768pcs
Set	Module qty/set	5pcs
	Module array	1line x 5columns
	Display size(mm)	63 x 13in (1600.2 x 330.2mm)
	Total size(case/mm)	66 x 16in (1676.4 x 406.4mm)
	Display Weight	18 lbs.
	Input currency	AC 88 ~ 264VAC
	Input Hz	45Hz ~ 65Hz
	Output Voltage	5V
	Watt.(Max/Ave.)	120/60watt
	Viewing Distance	6~150m / 19~492ft
	Operating Temp.	-20°C ~ 50°C / -4 ~ 122 F
	Operation	Infrared remote control / SunNet software
	Casing	70mm Aluminum case with Hard Plastic corners

2. Features:

- 1.Animation & Special effects are available
- 2.Designed for indoor *semi-outdoor

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Specification for FC 316

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1. Specs

Technical Terms		Details
Module	Pixel Composition(LED)	1 Red, 1 pGreen, 1 Blue
	Pixel Pitch	20mm
	Size	320 x 320mm
	Dot array	16 x 16
	Color	Full Color
	Brightness(NIT)	3,000NITs
	Watt.(Max/Ave.)	20/ 10Watt
Controller/Driver	Driver type	1/8 duty
	Flash Memory	SAMSUNG 16M NAND Flash Memory
	CPU	Samsung S3C44BOX
LED	Grade	Super Intensity
	LED Type	Oval shape (4.0 x 5.0mm)
	Viewing angle	70deg.(Hori.) / 30deg.(Ver.)
	Luminous Intensity	Red:1800mcd pGreen:4000mcd Blue:3000mcd
	Qty/module	768pcs
Set	Module qty/set	6pcs
	Module array	1line x 6columns
	Display size(mm)	76 x 13in (1930.4 x 330.2mm)
	Total size(case/mm)	78 x 16in (1981.2 x 406.4mm)
	Display Weight	22 lbs.
	Input currency	AC 88 ~ 264VAC
	Input Hz	45Hz ~ 65Hz
	Output Voltage	5V
	Watt.(Max/Ave.)	120/60watt
	Viewing Distance	6~150m / 19~492ft
	Operating Temp.	-20°C ~ 50°C / -4 ~ 122 F
	Operation	Infrared remote control / SunNet software
	Casing	70mm Aluminum case with Hard Plastic corners

2. Features:

- 1.Animation & Special effects are available
- 2.Designed for indoor *semi-outdoor

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1. Specs

Technical Terms		Details
Module	Pixel Composition(LED)	1 Red, 1 pGreen, 1 Blue
	Pixel Pitch	20mm
	Size	320 x 320mm
	Dot array	16 x 16
	Color	Full Color
	Brightness(NIT)	3,000NITs
	Watt.(Max/Ave.)	20/ 10Watt
Controller/Driver	Driver type	1/8 duty
	Flash Memory	SAMSUNG 16M NAND Flash Memory
	CPU	Samsung S3C44BOX
LED	Grade	Super Intensity
	LED Type	Oval shape (4.0 x 5.0mm)
	Viewing angle	70deg.(Hori.) / 30deg.(Ver.)
	Luminous Intensity	Red:1800mcd pGreen:4000mcd Blue:3000mcd
	Qty/module	768pcs
Set	Module qty/set	7pcs
	Module array	1line x 7columns
	Display size(mm)	89 x 13in (2260.6 x 330.2mm)
	Total size(case/mm)	92 x 16in (2336.8 x 406.4mm)
	Display Weight	26 lbs.
	Input currency	AC 88 ~ 264VAC
	Input Hz	45Hz ~ 65Hz
	Output Voltage	5V
	Watt.(Max/Ave.)	120/60watt
	Viewing Distance	6~150m / 19~492ft
	Operating Temp.	-20°C ~ 50°C / -4 ~ 122 F
	Operation	Infrared remote control / SunNet software
	Casing	70mm Aluminum case with Hard Plastic corners

2. Features:

- 1.Animation & Special effects are available
- 2.Designed for indoor *semi-outdoor

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1. Specs

Technical Terms		Details
Module	Pixel Composition(LED)	1 Red, 1 pGreen, 1 Blue
	Pixel Pitch	20mm
	Size	320 x 320mm
	Dot array	16 x 16
	Color	Full Color
	Brightness(NIT)	3,000NITs
	Watt.(Max/Ave.)	20/ 10Watt
Controller/Driver	Driver type	1/8 duty
	Flash Memory	SAMSUNG 16M NAND Flash Memory
	CPU	Samsung S3C44BOX
LED	Grade	Super Intensity
	LED Type	Oval shape (4.0 x 5.0mm)
	Viewing angle	70deg.(Hori.) / 30deg.(Ver.)
	Luminous Intensity	Red:1800mcd pGreen:4000mcd Blue:3000mcd
	Qty/module	768pcs
Set	Module qty/set	8pcs
	Module array	1line x 8columns
	Display size(mm)	102 x 13in (2590.8 x 330.2mm)
	Total size(case/mm)	105 x 16in (2667 x 406.4mm)
	Display Weight	30 lbs.
	Input currency	AC 88 ~ 264VAC
	Input Hz	45Hz ~ 65Hz
	Output Voltage	5V
	Watt.(Max/Ave.)	120/60watt
	Viewing Distance	6~150m / 19~492ft
	Operating Temp.	-20°C ~ 50°C / -4 ~ 122 F
	Operation	Infrared remote control / SunNet software
	Casing	70mm Aluminum case with Hard Plastic corners

2. Features:

- 1.Animation & Special effects are available
- 2.Designed for indoor *semi-outdoor

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Specification for FC 324

Issued on: 4-Jan-08

Revised on: 10-Oct-08

1. Specs

Technical Terms		Details
Module	Pixel Composition(LED)	1 Red, 1 pGreen, 1 Blue
	Pixel Pitch	20mm
	Size	320 x 320mm
	Dot array	16 x 16
	Color	Full Color
	Brightness(NIT)	3,000NITs
	Watt.(Max/Ave.)	20/ 10Watt
Controller/Driver	Driver type	1/8 duty
	Flash Memory	SAMSUNG 16M NAND Flash Memory
	CPU	Samsung S3C44BOX
LED	Grade	Super Intensity
	LED Type	Oval shape (4.0 x 5.0mm)
	Viewing angle	70deg.(Hori.) / 30deg.(Ver.)
	Luminous Intensity	Red:1800mcd pGreen:4000mcd Blue:3000mcd
	Qty/module	768pcs
Set	Module qty/set	8pcs
	Module array	2line x 4columns
	Display size(mm)	50 x 26in (1270 x 660.4mm)
	Total size(case/mm)	53 x 29in (1346.2 x 736.6mm)
	Display Weight	28 lbs.
	Input currency	AC 88 ~ 264VAC
	Input Hz	45Hz ~ 65Hz
	Output Voltage	5V
	Watt.(Max/Ave.)	120/60watt
	Viewing Distance	6~150m / 19~492ft
	Operating Temp.	-20°C ~ 50°C / -4 ~ 122 F
	Operation	Infrared remote control / SunNet software
	Casing	70mm Aluminum case with Hard Plastic corners

2. Features:

- 1.Animation & Special effects are available
- 2.Designed for indoor *semi-outdoor

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1. Specs

Technical Terms		Details
Module	Pixel Composition(LED)	1 Red, 1 pGreen, 1 Blue
	Pixel Pitch	20mm
	Size	320 x 320mm
	Dot array	16 x 16
	Color	Full Color
	Brightness(NIT)	3,000NITs
	Watt.(Max/Ave.)	20/ 10Watt
Controller/Driver	Driver type	1/8 duty
	Flash Memory	SAMSUNG 16M NAND Flash Memory
	CPU	Samsung S3C44BOX
LED	Grade	Super Intensity
	LED Type	Oval shape (4.0 x 5.0mm)
	Viewing angle	70deg.(Hori.) / 30deg.(Ver.)
	Luminous Intensity	Red:1800mcd pGreen:4000mcd Blue:3000mcd
	Qty/module	768pcs
Set	Module qty/set	10pcs
	Module array	2line x 5columns
	Display size(mm)	63 x 26in (1600.2 x 660.4mm)
	Total size(case/mm)	66 x 29in (1676.4 x 736.6mm)
	Display Weight	36 lbs.
	Input currency	AC 88 ~ 264VAC
	Input Hz	45Hz ~ 65Hz
	Output Voltage	5V
	Watt.(Max/Ave.)	120/60watt
	Viewing Distance	6~150m / 19~492ft
	Operating Temp.	-20°C ~ 50°C / -4 ~ 122 F
	Operation	Infrared remote control / SunNet software
	Casing	70mm Aluminum case with Hard Plastic corners

2. Features:

- 1.Animation & Special effects are available
- 2.Designed for indoor *semi-outdoor

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Specification for FC 326

Issued on: 4-Jan-08

Revised on: 10-Oct-08

1. Specs

Technical Terms		Details
Module	Pixel Composition(LED)	1 Red, 1 pGreen, 1 Blue
	Pixel Pitch	20mm
	Size	320 x 320mm
	Dot array	16 x 16
	Color	Full Color
	Brightness(NIT)	3,000NITs
	Watt.(Max/Ave.)	20/ 10Watt
Controller/Driver	Driver type	1/8 duty
	Flash Memory	SAMSUNG 16M NAND Flash Memory
	CPU	Samsung S3C44BOX
LED	Grade	Super Intensity
	LED Type	Oval shape (4.0 x 5.0mm)
	Viewing angle	70deg.(Hori.) / 30deg.(Ver.)
	Luminous Intensity	Red:1800mcd pGreen:4000mcd Blue:3000mcd
	Qty/module	768pcs
Set	Module qty/set	12pcs
	Module array	2line x 6columns
	Display size(mm)	76 x 26in (1930.4 x 660.4mm)
	Total size(case/mm)	78 x 29in (1981.2 x 736.6mm)
	Display Weight	44 lbs.
	Input currency	AC 88 ~ 264VAC
	Input Hz	45Hz ~ 65Hz
	Output Voltage	5V
	Watt.(Max/Ave.)	120/60watt
	Viewing Distance	6~150m / 19~492ft
	Operating Temp.	-20°C ~ 50°C / -4 ~ 122 F
	Operation	Infrared remote control / SunNet software
	Casing	70mm Aluminum case with Hard Plastic corners

2. Features:

- 1.Animation & Special effects are available
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1. Specs

Technical Terms		Details
Module	Pixel Composition(LED)	1 Red, 1 pGreen, 1 Blue
	Pixel Pitch	20mm
	Size	320 x 320mm
	Dot array	16 x 16
	Color	Full Color
	Brightness(NIT)	3,000NITs
	Watt.(Max/Ave.)	20/ 10Watt
Controller/Driver	Driver type	1/8 duty
	Flash Memory	SAMSUNG 16M NAND Flash Memory
	CPU	Samsung S3C44BOX
LED	Grade	Super Intensity
	LED Type	Oval shape (4.0 x 5.0mm)
	Viewing angle	70deg.(Hori.) / 30deg.(Ver.)
	Luminous Intensity	Red:1800mcd pGreen:4000mcd Blue:3000mcd
	Qty/module	768pcs
Set	Module qty/set	14pcs
	Module array	2line x 7columns
	Display size(mm)	89 x 26in (2260.6 x 660.4mm)
	Total size(case/mm)	92 x 29in (2336.8 x 736.6mm)
	Display Weight	52 lbs.
	Input currency	AC 88 ~ 264VAC
	Input Hz	45Hz ~ 65Hz
	Output Voltage	5V
	Watt.(Max/Ave.)	120/60watt
	Viewing Distance	6~150m / 19~492ft
	Operating Temp.	-20°C ~ 50°C / -4 ~ 122 F
	Operation	Infrared remote control / SunNet software
	Casing	70mm Aluminum case with Hard Plastic corners

2. Features:

- 1.Animation & Special effects are available
- 2.Designed for indoor *semi-outdoor

* LED display can be used outdoor while under a canopy, over hang, awning or any other protective covering.

Specification for FC 328

Issued on: 4-Jan-08

Revised on: 10-Oct-08

1. Specs

Technical Terms		Details
Module	Pixel Composition(LED)	1 Red, 1 pGreen, 1 Blue
	Pixel Pitch	20mm
	Size	320 x 320mm
	Dot array	16 x 16
	Color	Full Color
	Brightness(NIT)	3,000NITs
	Watt.(Max/Ave.)	20/ 10Watt
Controller/Driver	Driver type	1/8 duty
	Flash Memory	SAMSUNG 16M NAND Flash Memory
	CPU	Samsung S3C44BOX
LED	Grade	Super Intensity
	LED Type	Oval shape (4.0 x 5.0mm)
	Viewing angle	70deg.(Hori.) / 30deg.(Ver.)
	Luminous Intensity	Red:1800mcd pGreen:4000mcd Blue:3000mcd
	Qty/module	768pcs
Set	Module qty/set	16pcs
	Module array	2line x 8columns
	Display size(mm)	102 x 26in (2590.8 x 660.4mm)
	Total size(case/mm)	105 x 29in (2667 x 736.6mm)
	Display Weight	60 lbs.
	Input currency	AC 88 ~ 264VAC
	Input Hz	45Hz ~ 65Hz
	Output Voltage	5V
	Watt.(Max/Ave.)	120/60watt
	Viewing Distance	6~150m / 19~492ft
	Operating Temp.	-20°C ~ 50°C / -4 ~ 122 F
	Operation	Infrared remote control / SunNet software
	Casing	70mm Aluminum case with Hard Plastic corners

2. Features:

- 1.Animation & Special effects are available
- 2.Designed for indoor *semi-outdoor

* LED display can be used outdoor while under a canopy, over hang, awning or any other protective covering.