



Shenzhen Absen Optoelectronic Co., Ltd.

SA1.5 (NovaStar) - Specifications

Version: V20251202

Parameter		Value
Physical Parameter	LED Type	Flip-Chip COB
	Pixel Pitch (mm)	1.56
	Panel Dimensions (WxHxD)/(mm)	500x500x80
	Pixel Per Panel	320x320
	Panel Weight (kg)	7.2
	Panel Material	Die Casting Magnesium
	Module Dimensions (WxH)/(mm)	250x250
Optoelectronic Parameter	Brightness (nit)	1200
	Refresh Rate (Hz)	7680
	Gray scale (Bit)	15
	Contrast Ratio	8000:1
	Color Temperature (K)	6500
	Viewing Angle (H/V) (°)	160/160
	Driving Type	1/32
	AC Operating Voltage (V)	100~240
	Power Consumption (Max./Avg.)(W/m ²)	600/200
	Heat Generated(Max./Avg.)(BTU/h/m ²)	2048/683
Application Parameter	Storage Temperature (°C)	-40~+60
	Operating Temperature (°C)	-10~+40
	Storage Humidity (RH)	10%~90%
	Operating Humidity (RH)	10%~90%
	IP Rating (Front/Rear)	IP40/IP21
	Module Maintenance	Front or Rear
	PSU & Others Maintenance	Front or Rear
	Panel Installation Type	Hanging/Stacking
	Max Rigging QTY.	20
	Certificate	CE,ET L,ROHS,FCC,UKCA

Remark: Power consumption tolerance: $\pm 15\%$, according to the actual situation.

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Shenzhen Absen Optoelectronic Co., Ltd.

SA1.9 (Brompton/NovaStar) - Specifications

Version: V20251113

Parameter		Value
Physical Parameter	LED Type	IMD 4in1
	Pixel Pitch (mm)	1.95
	Panel Dimensions (WxHxD)/(mm)	1000x500x70
	Pixel Per Panel	512x256
	Panel Weight (kg)	9.5
	Panel Material	Die Casting Magnesium + Carbon Fiber
	Module Dimensions (WxH)/(mm)	250x250
Optoelectronic Parameter	Brightness (nit)	1500
	Refresh Rate (Hz)	7680
	Gray scale (Bit)	16
	Contrast Ratio	5500:1
	Color Temperature (K)	6500
	Viewing Angle (H/V) (°)	160/160
	Driving Type	1/16
	AC Operating Voltage (V)	100~240
	Power Consumption (Max./Avg.)(W/m ²)	440/146
	Heat Generated(Max./Avg.)(BTU/h/m ²)	1502/498
Application Parameter	Storage Temperature (°C)	-40~+60
	Operating Temperature (°C)	-10~+40
	Storage Humidity (RH)	10%~90%
	Operating Humidity (RH)	10%~90%
	IP Rating (Front/Rear)	IP40/IP21
	Module Maintenance	Front or Rear
	PSU & Others Maintenance	Front or Rear
	Panel Installation Type	Hanging/Stacking
	Max Rigging QTY.	20
	Certificate	CE,ET L,ROHS,FCC,UKCA

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Shenzhen Absen Optoelectronic Co., Ltd.

SA1.9 (Brompton/NovaStar) - Specifications

Version: V20251205

Parameter		Value
Physical Parameter	LED Type	IMD 4in1
	Pixel Pitch (mm)	1.95
	Panel Dimensions (WxHxD)/(mm)	500x500x70
	Pixel Per Panel	256x256
	Panel Weight (kg)	5.5
	Panel Material	Die Casting Magnesium
	Module Dimensions (WxH)/(mm)	250x250
Optoelectronic Parameter	Brightness (nit)	1500
	Refresh Rate (Hz)	7680
	Gray scale (Bit)	16
	Contrast Ratio	5500:1
	Color Temperature (K)	6500
	Viewing Angle (H/V) (°)	160/160
	Driving Type	1/16
	AC Operating Voltage (V)	100~240
	Power Consumption (Max./Avg.)(W/m ²)	440/146
	Heat Generated(Max./Avg.)(BTU/h/m ²)	1502/498
Application Parameter	Storage Temperature (°C)	-40~+60
	Operating Temperature (°C)	-10~+40
	Storage Humidity (RH)	10%~90%
	Operating Humidity (RH)	10%~90%
	IP Rating (Front/Rear)	IP40/IP21
	Module Maintenance	Front or Rear
	PSU & Others Maintenance	Front or Rear
	Panel Installation Type	Hanging/Stacking
	Max Rigging QTY.	20
	Certificate	CE,ET L,ROHS,FCC,UKCA

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Shenzhen Absen Optoelectronic Co., Ltd.

SA1.9-B (Brompton/NovaStar)-Preliminary Specifications

Version: V20251113

Parameter		Value
Physical Parameter	LED Type	IMD 4in1
	Pixel Pitch (mm)	1.95
	Panel Dimensions (WxHxD)/(mm)	500x500x70
	Pixel Per Panel	256x256
	Panel Weight (kg)	7.2
	Panel Material	Die Casting Magnesium
	Module Dimensions (WxH)/(mm)	250x250
Optoelectronic Parameter	Brightness (nit)	1500
	Refresh Rate (Hz)	7680
	Gray scale (Bit)	16
	Contrast Ratio	5500:1
	Color Temperature (K)	6500
	Viewing Angle (H/V) (°)	160/160
	Driving Type	1/16
	AC Operating Voltage (V)	100~240
	Power Consumption (Max./Avg.)(W/m ²)	440/146
	Heat Generated(Max./Avg.)(BTU/h/m ²)	1502/498
Application Parameter	Storage Temperature (°C)	-40~+60
	Operating Temperature (°C)	-10~+40
	Storage Humidity (RH)	10%~90%
	Operating Humidity (RH)	10%~90%
	IP Rating (Front/Rear)	IP40/IP21
	Module Maintenance	Front or Rear
	PSU & Others Maintenance	Front or Rear
	Panel Installation Type	Hanging/Stacking
	Max Rigging QTY.	20
	Certificate	CE,ET L,ROHS,FCC,UKCA

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Shenzhen Absen Optoelectronic Co., Ltd.

SA1.9-C (Brompton/NovaStar)- Specifications

Version: V20251113

Parameter		Value
Physical Parameter	LED Type	IMD 4in1
	Pixel Pitch (mm)	1.95
	Panel Dimensions (WxHxD)/(mm)	500x500x107
	Pixel Per Panel	256x256
	Panel Weight (kg)	9
	Panel Material	Die Casting Aluminum
	Module Dimensions (WxH)/(mm)	500x250
Optoelectronic Parameter	Brightness (nit)	1500
	Refresh Rate (Hz)	7680
	Gray scale (Bit)	16
	Contrast Ratio	5500:1
	Color Temperature (K)	6500
	Viewing Angle (H/V) (°)	160/160
	Driving Type	1/16
	AC Operating Voltage (V)	100~240
	Power Consumption (Max./Avg.)(W/m ²)	440/146
	Heat Generated(Max./Avg.)(BTU/h/m ²)	1502/498
Application Parameter	Storage Temperature (°C)	-40~+60
	Operating Temperature (°C)	-10~+40
	Storage Humidity (RH)	10%~90%
	Operating Humidity (RH)	10%~90%
	IP Rating (Front/Rear)	IP40/IP21
	Module Maintenance	Rear
	PSU & Others Maintenance	Rear
	Panel Installation Type	Hanging/Stacking
	Max Rigging QTY.	20
	Certificate	CE,ROHS,ETL,FCC,UKCA

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SA2.6 (Brompton/NovaStar)- Specifications

Version: V20251105

Parameter		Value
Physical Parameter	LED Type	Black SMD 3in1 1515
	Pixel Pitch (mm)	2.6
	Panel Dimensions (WxHxD)/(mm)	1000x500x70
	Pixel Per Panel	384x192
	Panel Weight (kg)	9.5
	Panel Material	Die Casting Magnesium + Carbon Fiber
	Module Dimensions (WxH)/(mm)	250x250
Optoelectronic Parameter	Brightness (nit)	1500
	Refresh Rate (Hz)	7680
	Gray scale (Bit)	16
	Contrast Ratio	8000:1
	Color Temperature (K)	6500
	Viewing Angle (H/V) (°)	160/160
	Driving Type	1/12
	AC Operating Voltage (V)	100~240
	Power Consumption (Max./Avg.)(W/m ²)	540/180
	Heat Generated(Max./Avg.)(BTU/h/m ²)	1843/614
Application Parameter	Storage Temperature (°C)	-40~+60
	Operating Temperature (°C)	-10~+40
	Storage Humidity (RH)	10%~90%
	Operating Humidity (RH)	10%~90%
	IP Rating (Front/Rear)	IP40/IP21
	Module Maintenance	Front or Rear
	PSU & Others Maintenance	Front or Rear
	Panel Installation Type	Hanging/Stacking
	Max Rigging QTY.	20
	Certificate	CE,ET L,ROHS,FCC,UKCA

Remark:Power consumption tolerance: $\pm 15\%$, according to the actual situation.

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Shenzhen Absen Optoelectronic Co., Ltd.

SA2.6 (Brompton/NovaStar)- Specifications

Version: V20251105

Parameter		Value
Physical Parameter	LED Type	Black SMD 3in1 1515
	Pixel Pitch (mm)	2.6
	Panel Dimensions (WxHxD)/(mm)	500x500x70
	Pixel Per Panel	192x192
	Panel Weight (kg)	5.5
	Panel Material	Die Casting Magnesium
	Module Dimensions (WxH)/(mm)	250x250
Optoelectronic Parameter	Brightness (nit)	1500
	Refresh Rate (Hz)	7680
	Gray scale (Bit)	16
	Contrast Ratio	8000:1
	Color Temperature (K)	6500
	Viewing Angle (H/V) (°)	160/160
	Driving Type	1/12
	AC Operating Voltage (V)	100~240
	Power Consumption (Max./Avg.)(W/m ²)	540/180
	Heat Generated(Max./Avg.)(BTU/h/m ²)	1843/614
Application Parameter	Storage Temperature (°C)	-40~+60
	Operating Temperature (°C)	-10~+40
	Storage Humidity (RH)	10%~90%
	Operating Humidity (RH)	10%~90%
	IP Rating (Front/Rear)	IP40/IP21
	Module Maintenance	Front or Rear
	PSU & Others Maintenance	Front or Rear
	Panel Installation Type	Hanging/Stacking
	Max Rigging QTY.	20
	Certificate	CE,ET L,ROHS,FCC,UKCA

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SA2.6-B (Brompton/NovaStar)- Specifications

Version: V20251029

Parameter		Value
Physical Parameter	LED Type	Black SMD 3in1 1515
	Pixel Pitch (mm)	2.6
	Panel Dimensions (WxHxD)/(mm)	500x500x70
	Pixel Per Panel	192x192
	Panel Weight (kg)	7.2
	Panel Material	Die Casting Magnesium
	Module Dimensions (WxH)/(mm)	250x250
Optoelectronic Parameter	Brightness (nit)	1500
	Refresh Rate (Hz)	7680
	Gray scale (Bit)	16
	Contrast Ratio	8000:1
	Color Temperature (K)	6500
	Viewing Angle (H/V) (°)	160/160
	Driving Type	1/12
	AC Operating Voltage (V)	100~240
	Power Consumption (Max./Avg.)(W/m ²)	540/180
	Heat Generated(Max./Avg.)(BTU/h/m ²)	1843/614
Application Parameter	Storage Temperature (°C)	-40~+60
	Operating Temperature (°C)	-10~+40
	Storage Humidity (RH)	10%~90%
	Operating Humidity (RH)	10%~90%
	IP Rating (Front/Rear)	IP40/IP21
	Module Maintenance	Front or Rear
	PSU & Others Maintenance	Front or Rear
	Panel Installation Type	Hanging/Stacking
	Max Rigging QTY.	20
	Certificate	CE,ET L,ROHS,FCC,UKCA

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SA2.6-C (Brompton/NovaStar)- Specifications

Version: V20251105

Parameter		Value
Physical Parameter	LED Type	Black SMD 3in1 1515
	Pixel Pitch (mm)	2.6
	Panel Dimensions (WxHxD)/(mm)	500x500x107
	Pixel Per Panel	192x192
	Panel Weight (kg)	9
	Panel Material	Die Casting Aluminum
	Module Dimensions (WxH)/(mm)	500x250
Optoelectronic Parameter	Brightness (nit)	1500
	Refresh Rate (Hz)	7680
	Gray scale (Bit)	16
	Contrast Ratio	8000:1
	Color Temperature (K)	6500
	Viewing Angle (H/V) (°)	160/160
	Driving Type	1/12
	AC Operating Voltage (V)	100~240
	Power Consumption (Max./Avg.)(W/m ²)	540/180
	Heat Generated(Max./Avg.)(BTU/h/m ²)	1843/614
Application Parameter	Storage Temperature (°C)	-40~+60
	Operating Temperature (°C)	-10~+40
	Storage Humidity (RH)	10%~90%
	Operating Humidity (RH)	10%~90%
	IP Rating (Front/Rear)	IP40/IP21
	Module Maintenance	Rear
	PSU & Others Maintenance	Rear
	Panel Installation Type	Hanging/Stacking
	Max Rigging QTY.	20
	Certificate	CE,ET L,ROHS,FCC,UKCA

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SA3.9 (Brompton)- Specifications

Version: V20250702

Parameter		Value
Physical Parameter	LED Type	SMD 3in1 2020
	Pixel Pitch (mm)	3.9
	Panel Dimensions (WxHxD)/(mm)	1000x500x70
	Pixel Per Panel	256x128
	Panel Weight (kg)	9.5
	Panel Material	Die Casting Magnesium + Carbon Fiber
	Module Dimensions (WxH)/(mm)	250x250
Optoelectronic Parameter	Brightness (nit)	1200
	Refresh Rate (Hz)	7680
	Gray scale (Bit)	16
	Contrast Ratio	7000:1
	Color Temperature (K)	6500
	Viewing Angle (H/V) (°)	160/160
	Driving Type	1/8
	AC Operating Voltage (V)	100~240
	Power Consumption (Max./Avg.)(W/m ²)	450/150
	Heat Generated(Max./Avg.)(BTU/h/m ²)	1536/512
Application Parameter	Storage Temperature (°C)	-40~+60
	Operating Temperature (°C)	-10~+40
	Storage Humidity (RH)	10%~90%
	Operating Humidity (RH)	10%~90%
	IP Rating (Front/Rear)	IP40/IP21
	Module Maintenance	Front or Rear
	PSU & Others Maintenance	Front or Rear
	Panel Installation Type	Hanging/Stacking
	Max Rigging QTY.	20
	Certificate	CE,FCC,ETL,ROHS,UKCA

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SA3.9 (Brompton)- Specifications

Version: V20250702

Parameter		Value
Physical Parameter	LED Type	SMD 3in1 2020
	Pixel Pitch (mm)	3.9
	Panel Dimensions (WxHxD)/(mm)	500x500x70
	Pixel Per Panel	128x128
	Panel Weight (kg)	5.5
	Panel Material	Die Casting Magnesium
	Module Dimensions (WxH)/(mm)	250x250
Optoelectronic Parameter	Brightness (nit)	1200
	Refresh Rate (Hz)	7680
	Gray scale (Bit)	16
	Contrast Ratio	7000:1
	Color Temperature (K)	6500
	Viewing Angle (H/V) (°)	160/160
	Driving Type	1/8
	AC Operating Voltage (V)	100~240
	Power Consumption (Max./Avg.)(W/m ²)	450/150
	Heat Generated(Max./Avg.)(BTU/h/m ²)	1536/512
Application Parameter	Storage Temperature (°C)	-40~+60
	Operating Temperature (°C)	-10~+40
	Storage Humidity (RH)	10%~90%
	Operating Humidity (RH)	10%~90%
	IP Rating (Front/Rear)	IP40/IP21
	Module Maintenance	Front or Rear
	PSU & Others Maintenance	Front or Rear
	Panel Installation Type	Hanging/Stacking
	Max Rigging QTY.	20
	Certificate	CE,FCC,ETL,ROHS,UKCA

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SA3.9-B (Brompton)- Specifications

Version: V20251113

Parameter		Value
Physical Parameter	LED Type	SMD 3in1 2020
	Pixel Pitch (mm)	3.9
	Panel Dimensions (WxHxD)/(mm)	500x500x70
	Pixel Per Panel	128x128
	Panel Weight (kg)	7.2
	Panel Material	Die Casting Magnesium
	Module Dimensions (WxH)/(mm)	250x250
Optoelectronic Parameter	Brightness (nit)	1200
	Refresh Rate (Hz)	7680
	Gray scale (Bit)	16
	Contrast Ratio	7000:1
	Color Temperature (K)	6500
	Viewing Angle (H/V) (°)	160/160
	Driving Type	1/8
	AC Operating Voltage (V)	100~240
	Power Consumption (Max./Avg.)(W/m ²)	450/150
	Heat Generated(Max./Avg.)(BTU/h/m ²)	1536/512
Application Parameter	Storage Temperature (°C)	-40~+60
	Operating Temperature (°C)	-10~+40
	Storage Humidity (RH)	10%~90%
	Operating Humidity (RH)	10%~90%
	IP Rating (Front/Rear)	IP40/IP21
	Module Maintenance	Front or Rear
	PSU & Others Maintenance	Front or Rear
	Panel Installation Type	Hanging/Stacking
	Max Rigging QTY.	20
	Certificate	CE,FCC,ETL,ROHS,UKCA

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