

## Technical Specifications

Product Name	<b>R5™</b>
Model Name	<b>Robot 5.1</b> <b>Robot 5.1 BRA</b> <b>Robot 5.1 DDG</b> <b>Robot 5.1 DDG BRA</b>
Type	AS-99588-SDG AS-99588-SDG-BRA AS-99588-DDG AS-99588-DDG-BRA
Manufacturer	AutoStore AS
Measurement (with antenna)	SDG: L: 963 mm, W: 700 mm, H: 545 mm DDG: L: 988 mm, W: 700 mm, H: 545 mm
Weight (with batteries)	SDG: 151 kg DDG: 155 kg
Weight with Max. Load	SDG: 187 kg DDG: 191 kg
Max. Working Load Limit for Robot Lift	36 kg (max. 30 kg inside the Bin)
Bin Height Support	220 and 330 mm
Operating Temperature	+1 °C to +35 °C
Operating Humidity	40 to 90 % non-condensing
Cover Material	Aluminum
Speed	3.1 m/s (11 km/h)
Acceleration	0.8 m/s <sup>2</sup>
Lift Speed	1.6 m/s
Voltage	Nominal: 24 VDC Maximum: 29 VDC
Power Consumption	Average: 100 W (during operation)
Charge Current	Maximum: 25 A
Interface Charge Contact Rating (ODU pins)	Nominal: 49 A Maximum: 76 A
Robot Battery (2 pcs)	NexSys 12NXS90 (Alt: Concorde AGM-12105T)
Robot Radio Frequency	2405 – 2480 MHz
Operator Panel	5 switches, status LED (multi color), local emergency stop, dome with antenna and error status LEDs (orange)
RF Output Power	4.98 dBm
IP Class	IP 20

## Technical Specifications

Product Name	<b>R5+™</b>
Model Name	<b>Robot 5.1+</b> <b>Robot 5.1+ BRA</b> <b>Robot 5.1+ DDG</b> <b>Robot 5.1+ DDG BRA</b>
Type	AS-99588-SDG-425 AS-99588-SDG-425-BRA AS-99588-DDG-425 AS-99588-DDG-425-BRA
Manufacturer	AutoStore AS
Measurement	SDG: L: 963 mm, W: 700 mm, H: 645 mm DDG: L: 988 mm, W: 700 mm, H: 645 mm
Weight	SDG: 155 kg DDG: 159 kg
Weight with Max. Load	SDG: 191 kg DDG: 195 kg
Max. Working Load Limit for Robot Lift	36 kg (max. 30 kg inside the Bin)
Bin Height Support	220, 330, 425 mm
Operating Temperature	+1 °C to +35 °C
Operating Humidity	40 to 90 % non-condensing
Cover Material	Aluminum
Speed	3.1 m/s (11 km/h)
Acceleration	0.8 m/s <sup>2</sup>
Lift Speed	1.6 m/s
Voltage	Nominal: 24 VDC Maximum: 29 VDC
Power Consumption	Average: 100 W (during operation)
Charge Current	Maximum: 25 A
Interface Charge Contact Rating (ODU pins)	Nominal: 49 A Maximum: 76 A
Robot Battery (2 pcs)	NexSys 12NXS90 (Alt: Concorde AGM-12105T)
Robot Radio Frequency	2405 – 2480 MHz
Operator Panel	5 switches, status LED (multi color), local emergency stop, dome with antenna and error status LEDs (orange)
RF Output Power	4.98 dBm
IP Class	IP 20

## Technical Specifications

Product Name	<b>R5 Pro™</b>
Model Name	<b>Robot 5.1 PRO</b> <b>Robot 5.1 PRO BRA</b> <b>Robot 5.1 PRO DDG</b> <b>Robot 5.1 PRO DDG BRA</b>
Type	AS-99588-SDG-PRO AS-99588-SDG-PRO-BRA AS-99588-DDG-PRO AS-99588-DDG-PRO-BRA
Manufacturer	AutoStore AS
Measurement	SDG: L: 963 mm, W: 700 mm, H: 545 mm DDG: L: 988 mm, W: 700 mm, H: 545 mm
Weight	SDG: 141 kg DDG: 145 kg
Weight with Max. Load	SDG: 177 kg DDG: 181 kg
Max. Working Load Limit for Robot Lift	36 kg (max. 30 kg inside the Bin)
Bin Height Support	220 and 330 mm
Operating Temperature	+1 °C to +35 °C
Operating Humidity	40 to 90 % non-condensing
Cover Material	Aluminum
Speed	3.1 m/s (11 km/h)
Acceleration	0.8 m/s <sup>2</sup>
Lift Speed	1.6 m/s
Voltage	Nominal: 24 VDC Maximum: 29 VDC
Power Consumption	Average: 100 W (during operation)
Charge Current	Maximum: 100 A
Interface Charge Contact Rating (ODU pins)	Nominal: 185 A Maximum: 295 A
Robot Battery (1 pcs)	Toshiba SIP24-23, FP01101MCB01A
Robot Radio Frequency	2405 – 2480 MHz
Operator Panel	5 switches, status LED (multi color), local emergency stop, dome with antenna and error status LEDs (orange)
RF Output Power	7.7 dBm
IP Class	IP 20

## Technical Specifications

Product Name	<b>R5+ Pro™</b>
Model Name	<b>Robot 5.1+ PRO</b> <b>Robot 5.1+ PRO BRA</b> <b>Robot 5.1+ PRO DDG</b> <b>Robot 5.1+ PRO DDG BRA</b>
Type	AS-99588-SDG-425-PRO AS-99588-SDG-425-PRO-BRA AS-99588-DDG-425-PRO AS-99588-DDG-425-PRO-BRA
Manufacturer	AutoStore AS
Measurement	SDG: L: 963 mm, W: 700 mm, H: 645 mm DDG: L: 988 mm, W: 700 mm, H: 645 mm
Weight	SDG: 148 kg DDG: 152 kg
Weight with Max. Load	SDG: 184 kg DDG: 188 kg
Max. Working Load Limit for Robot Lift	36 kg (max. 30 kg inside the Bin)
Bin Height Support	220, 330, 425 mm
Operating Temperature	+1 °C to +35 °C
Operating Humidity	40 to 90 % non-condensing
Cover Material	Aluminum
Speed	3.1 m/s (11 km/h)
Acceleration	0.8 m/s <sup>2</sup>
Lift Speed	1.6 m/s
Voltage	Nominal: 24 VDC Maximum: 29 VDC
Power Consumption	Average: 100 W (during operation)
Charge Current	Maximum: 100 A
Interface Charge Contact Rating (ODU pins)	Nominal: 185 A Maximum: 295 A
Robot Battery (1 pcs)	Toshiba SIP24-23, FP01101MCB01A
Robot Radio Frequency	2405 – 2480 MHz
Operator Panel	5 switches, status LED (multi color), local emergency stop, dome with antenna and error status LEDs (orange)
RF Output Power	7.7 dBm
IP Class	IP 20