

## LS-1524RD



Land Star Series 15A 24V

Rating: Not Rated Yet

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Description

Land Star Series : LS-1524RD

- Recommended Application**
- Small solar system, such as solar home system, solar garden lights, solar CCTV system with automatic detection device.
  - Surface mounting solar home system (surface mounting series)

- Features**
- PWM charging with temperature compensation
  - Use MOSFET as electronic switch, without any mechanical switch
  - Electronic protection: over charging, over discharging, over load, and short circuit
  - Battery reverse polarity protection (Any combination of solar module and battery)

|                                                                                   | LS-512                                                                            | LS-624                                                                            | LS-512R                                                                           | LS-524R                                                      |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------|
|  |  |  |  |                                                              |
| Rated Current                                                                     | 5 A                                                                               | 5 A                                                                               | 5 A                                                                               | 5 A                                                          |
| Max PV Voc                                                                        | 120V AUTO                                                                         | 120V AUTO                                                                         | 120V AUTO                                                                         | 120V AUTO                                                    |
| Features                                                                          | Load work mode: ON/OFF                                                            | Load work mode: ON/OFF                                                            | Load work mode: Dusk to Dawn, ON/OFF, 1-12 hours timer, test                      | Load work mode: Dusk to Dawn, ON/OFF, 1-12 hours timer, test |
| Dimension                                                                         | 57x65x25mm                                                                        | 57x65x25mm                                                                        | 57x65x25mm                                                                        | 57x65x25mm                                                   |
| Mounting Dimension                                                                | 65x44mm                                                                           | 65x44mm                                                                           | 65x44mm                                                                           | 65x44mm                                                      |
| Mounting Hole                                                                     | 65                                                                                | 65                                                                                | 65                                                                                | 65                                                           |
| Terminals                                                                         | 2.5 mm <sup>2</sup>                                                               | 2.5 mm <sup>2</sup>                                                               | 2.5 mm <sup>2</sup>                                                               | 2.5 mm <sup>2</sup>                                          |
| Net Weight                                                                        | 0.05kg                                                                            | 0.05kg                                                                            | 0.05kg                                                                            | 0.05kg                                                       |
| Working Temperature                                                               | -35°C to +55°C                                                                    | -35°C to +55°C                                                                    | -35°C to +55°C                                                                    | -35°C to +55°C                                               |

|                                                                                   | LS-1024                                                                           | LS-1524                                                                           | LS-2024                                                          |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------|
|  |  |  |                                                                  |
| Rated Current                                                                     | 10 A                                                                              | 15 A                                                                              | 20 A                                                             |
| Max PV Voc                                                                        | 120V AUTO                                                                         | 120V AUTO                                                                         | 120V AUTO                                                        |
| Features                                                                          | • Manual ON/OFF<br>• Gel, Sealed and Flooded battery type option                  | • Manual ON/OFF<br>• Gel, Sealed and Flooded battery type option                  | • Manual ON/OFF<br>• Gel, Sealed and Flooded battery type option |
| Dimension                                                                         | 140x53x45mm                                                                       | 144x75x45mm                                                                       | 144x75x45mm                                                      |
| Mounting Dimension                                                                | 130x45mm                                                                          | 135x45mm                                                                          | 135x45mm                                                         |
| Mounting Hole                                                                     | 64.5                                                                              | 64.5                                                                              | 64.5                                                             |
| Terminals                                                                         | 6 mm <sup>2</sup>                                                                 | 10 mm <sup>2</sup>                                                                | 10 mm <sup>2</sup>                                               |
| Net Weight                                                                        | 0.15kg                                                                            | 0.25kg                                                                            | 0.25kg                                                           |
| Working Temperature                                                               | -35°C to +55°C                                                                    | -35°C to +55°C                                                                    | -35°C to +55°C                                                   |

|                                                                                   | LS-1024S                                                                                                                                                                             | LS-1524S                                                                                                                                                                             | LS-2024S                                                                                                                                                                             |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |                                                                                                     |                                                                                                     |                                                                                                                                                                                      |
| Rated Current                                                                     | 10 A                                                                                                                                                                                 | 15 A                                                                                                                                                                                 | 20 A                                                                                                                                                                                 |
| Max PV Voc                                                                        | 120V AUTO                                                                                                                                                                            | 120V AUTO                                                                                                                                                                            | 120V AUTO                                                                                                                                                                            |
| Features                                                                          | • Load work mode: manual ON/OFF.<br>• All the terminals backwards.<br>• LED indicator shows battery level, intuitive and convenient<br>• Gel, Sealed and Flooded battery type option | • Load work mode: manual ON/OFF.<br>• All the terminals backwards.<br>• LED indicator shows battery level, intuitive and convenient<br>• Gel, Sealed and Flooded battery type option | • Load work mode: manual ON/OFF.<br>• All the terminals backwards.<br>• LED indicator shows battery level, intuitive and convenient<br>• Gel, Sealed and Flooded battery type option |
| Dimension                                                                         | 120x68x45mm                                                                                                                                                                          | 128x87x45mm                                                                                                                                                                          | 128x87x45mm                                                                                                                                                                          |
| Mounting Dimension                                                                | 114x44mm                                                                                                                                                                             | 122x63mm                                                                                                                                                                             | 122x63mm                                                                                                                                                                             |
| Mounting Hole                                                                     | 64.5                                                                                                                                                                                 | 64.5                                                                                                                                                                                 | 64.5                                                                                                                                                                                 |
| Terminals                                                                         | 6 mm <sup>2</sup>                                                                                                                                                                    | 10 mm <sup>2</sup>                                                                                                                                                                   | 10 mm <sup>2</sup>                                                                                                                                                                   |
| Net Weight                                                                        | 0.15kg                                                                                                                                                                               | 0.25kg                                                                                                                                                                               | 0.25kg                                                                                                                                                                               |
| Working Temperature                                                               | -35°C to +55°C                                                                                                                                                                       | -35°C to +55°C                                                                                                                                                                       | -35°C to +55°C                                                                                                                                                                       |

|                                                                                   | LS-1024R                                                                                                                                                                                                                                                                                                                | LS-1524R                                                                                                                                                                                                                                                                                                                | LS-2024R                                                                                                                                                                                                                                                                                                                |
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|  |                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                         |
| Rated Current                                                                     | 10 A                                                                                                                                                                                                                                                                                                                    | 15 A                                                                                                                                                                                                                                                                                                                    | 20 A                                                                                                                                                                                                                                                                                                                    |
| Max PV Voc                                                                        | 120V AUTO                                                                                                                                                                                                                                                                                                               | 120V AUTO                                                                                                                                                                                                                                                                                                               | 120V AUTO                                                                                                                                                                                                                                                                                                               |
| Features                                                                          | • Load work mode: Dusk to Dawn, Light On-rdual timer, Test, ON/OFF<br>• Intelligent timer function with 1-15 hours option<br>• Unique dual timer function, enhance the flexibility of street light system<br>• Digital LED menu, only one key solve all setting simply<br>• Gel, Sealed and Flooded battery type option | • Load work mode: Dusk to Dawn, Light On-rdual timer, Test, ON/OFF<br>• Intelligent timer function with 1-15 hours option<br>• Unique dual timer function, enhance the flexibility of street light system<br>• Digital LED menu, only one key solve all setting simply<br>• Gel, Sealed and Flooded battery type option | • Load work mode: Dusk to Dawn, Light On-rdual timer, Test, ON/OFF<br>• Intelligent timer function with 1-15 hours option<br>• Unique dual timer function, enhance the flexibility of street light system<br>• Digital LED menu, only one key solve all setting simply<br>• Gel, Sealed and Flooded battery type option |
| Dimension                                                                         | 140x53x45mm                                                                                                                                                                                                                                                                                                             | 144x75x45mm                                                                                                                                                                                                                                                                                                             | 144x75x45mm                                                                                                                                                                                                                                                                                                             |
| Mounting Dimension                                                                | 130x45mm                                                                                                                                                                                                                                                                                                                | 135x45mm                                                                                                                                                                                                                                                                                                                | 135x45mm                                                                                                                                                                                                                                                                                                                |
| Mounting Hole                                                                     | 64.5                                                                                                                                                                                                                                                                                                                    | 64.5                                                                                                                                                                                                                                                                                                                    | 64.5                                                                                                                                                                                                                                                                                                                    |
| Terminals                                                                         | 6 mm <sup>2</sup>                                                                                                                                                                                                                                                                                                       | 10 mm <sup>2</sup>                                                                                                                                                                                                                                                                                                      | 10 mm <sup>2</sup>                                                                                                                                                                                                                                                                                                      |
| Net Weight                                                                        | 0.15kg                                                                                                                                                                                                                                                                                                                  | 0.25kg                                                                                                                                                                                                                                                                                                                  | 0.25kg                                                                                                                                                                                                                                                                                                                  |
| Working Temperature                                                               | -35°C to +55°C                                                                                                                                                                                                                                                                                                          | -35°C to +55°C                                                                                                                                                                                                                                                                                                          | -35°C to +55°C                                                                                                                                                                                                                                                                                                          |

|                                                                                     | LS-1024RD                                                                                                                                                                                                                                                                                            | LS-1524RD                                                                                                                                                                                                                                                                                            | LS-2024RD                                                                                                                                                                                                                                                                                            |
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|  |                                                                                                                                                                                                                   |                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                      |
| Rated Current                                                                       | 10 A                                                                                                                                                                                                                                                                                                 | 15 A                                                                                                                                                                                                                                                                                                 | 20 A                                                                                                                                                                                                                                                                                                 |
| Max PV Voc                                                                          | 120V AUTO                                                                                                                                                                                                                                                                                            | 120V AUTO                                                                                                                                                                                                                                                                                            | 120V AUTO                                                                                                                                                                                                                                                                                            |
| Features                                                                            | • Load work mode: Dusk to Dawn, Light On-rdual timer, Test, ON/OFF<br>• Intelligent timer function with 1-15 hours option<br>• Dual load output, enhance the flexibility of the system<br>• Digital LED menu, only one key solve all setting simply<br>• Gel, Sealed and Flooded battery type option | • Load work mode: Dusk to Dawn, Light On-rdual timer, Test, ON/OFF<br>• Intelligent timer function with 1-15 hours option<br>• Dual load output, enhance the flexibility of the system<br>• Digital LED menu, only one key solve all setting simply<br>• Gel, Sealed and Flooded battery type option | • Load work mode: Dusk to Dawn, Light On-rdual timer, Test, ON/OFF<br>• Intelligent timer function with 1-15 hours option<br>• Dual load output, enhance the flexibility of the system<br>• Digital LED menu, only one key solve all setting simply<br>• Gel, Sealed and Flooded battery type option |
| Dimension                                                                           | 140x53x45mm                                                                                                                                                                                                                                                                                          | 143x79x45mm                                                                                                                                                                                                                                                                                          | 143x79x45mm                                                                                                                                                                                                                                                                                          |
| Mounting Dimension                                                                  | 130x45mm                                                                                                                                                                                                                                                                                             | 134x55mm                                                                                                                                                                                                                                                                                             | 134x55mm                                                                                                                                                                                                                                                                                             |
| Mounting Hole                                                                       | 64.5                                                                                                                                                                                                                                                                                                 | 64.5                                                                                                                                                                                                                                                                                                 | 64.5                                                                                                                                                                                                                                                                                                 |
| Terminals                                                                           | 6 mm <sup>2</sup>                                                                                                                                                                                                                                                                                    | 10 mm <sup>2</sup>                                                                                                                                                                                                                                                                                   | 10 mm <sup>2</sup>                                                                                                                                                                                                                                                                                   |
| Net Weight                                                                          | 0.15kg                                                                                                                                                                                                                                                                                               | 0.3kg                                                                                                                                                                                                                                                                                                | 0.3kg                                                                                                                                                                                                                                                                                                |
| Working Temperature                                                                 | -35°C to +55°C                                                                                                                                                                                                                                                                                       | -35°C to +55°C                                                                                                                                                                                                                                                                                       | -35°C to +55°C                                                                                                                                                                                                                                                                                       |

|                                                                                     | LS-1024RP                                                                                                                                                                                                                                                                                                                                             | LS-1524RP                                                                                                                                                                                                                                                                                                                                             | LS-2024RP                                                                                                                                                                                                                                                                                                                                             |
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|  |                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                       |
| Rated Current                                                                       | 10 A                                                                                                                                                                                                                                                                                                                                                  | 15 A                                                                                                                                                                                                                                                                                                                                                  | 20 A                                                                                                                                                                                                                                                                                                                                                  |
| Max PV Voc                                                                          | 120V AUTO                                                                                                                                                                                                                                                                                                                                             | 120V AUTO                                                                                                                                                                                                                                                                                                                                             | 120V AUTO                                                                                                                                                                                                                                                                                                                                             |
| Features                                                                            | • Load work mode: Dusk to Dawn, Light On-rdual timer, Test, ON/OFF<br>• Intelligent timer function with 1-15 hours option<br>• Unique dual timer function, enhance the flexibility of street light system.<br>• Digital LED menu, only one key solve all setting simply<br>• Gel, Sealed and Flooded battery type option<br>• Waterproof design, IP68 | • Load work mode: Dusk to Dawn, Light On-rdual timer, Test, ON/OFF<br>• Intelligent timer function with 1-15 hours option<br>• Unique dual timer function, enhance the flexibility of street light system.<br>• Digital LED menu, only one key solve all setting simply<br>• Gel, Sealed and Flooded battery type option<br>• Waterproof design, IP68 | • Load work mode: Dusk to Dawn, Light On-rdual timer, Test, ON/OFF<br>• Intelligent timer function with 1-15 hours option<br>• Unique dual timer function, enhance the flexibility of street light system.<br>• Digital LED menu, only one key solve all setting simply<br>• Gel, Sealed and Flooded battery type option<br>• Waterproof design, IP68 |
| Dimension                                                                           | 145x63x31mm                                                                                                                                                                                                                                                                                                                                           | 145x83x45mm                                                                                                                                                                                                                                                                                                                                           | 145x83x45mm                                                                                                                                                                                                                                                                                                                                           |
| Mounting Dimension                                                                  | 135x45mm                                                                                                                                                                                                                                                                                                                                              | 135x55mm                                                                                                                                                                                                                                                                                                                                              | 135x55mm                                                                                                                                                                                                                                                                                                                                              |
| Mounting Hole                                                                       | 64.5                                                                                                                                                                                                                                                                                                                                                  | 64.5                                                                                                                                                                                                                                                                                                                                                  | 64.5                                                                                                                                                                                                                                                                                                                                                  |
| Terminals                                                                           | 4 mm <sup>2</sup>                                                                                                                                                                                                                                                                                                                                     | 6 mm <sup>2</sup>                                                                                                                                                                                                                                                                                                                                     | 6 mm <sup>2</sup>                                                                                                                                                                                                                                                                                                                                     |
| Net Weight                                                                          | 0.3kg                                                                                                                                                                                                                                                                                                                                                 | 0.4kg                                                                                                                                                                                                                                                                                                                                                 | 0.4kg                                                                                                                                                                                                                                                                                                                                                 |
| Working Temperature                                                                 | -35°C to +55°C                                                                                                                                                                                                                                                                                                                                        | -35°C to +55°C                                                                                                                                                                                                                                                                                                                                        | -35°C to +55°C                                                                                                                                                                                                                                                                                                                                        |

|                                                                                     | LS-1024RPD                                                                                                                                                                                                                                                                                                                        | LS-1524RPD                                                                                                                                                                                                                                                                                                                        | LS-2024RPD                                                                                                                                                                                                                                                                                                                        |
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|  |                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                   |
| Rated Current                                                                       | 10 A                                                                                                                                                                                                                                                                                                                              | 15 A                                                                                                                                                                                                                                                                                                                              | 20 A                                                                                                                                                                                                                                                                                                                              |
| Max PV Voc                                                                          | 120V AUTO                                                                                                                                                                                                                                                                                                                         | 120V AUTO                                                                                                                                                                                                                                                                                                                         | 120V AUTO                                                                                                                                                                                                                                                                                                                         |
| Features                                                                            | • Load work mode: Dusk to Dawn, Light On-rdual timer, Test, ON/OFF<br>• Intelligent timer function with 1-15 hours option<br>• Dual load output, enhance the flexibility of the system<br>• Digital LED menu, only one key solve all setting simply<br>• Gel, Sealed and Flooded battery type option<br>• Waterproof design, IP68 | • Load work mode: Dusk to Dawn, Light On-rdual timer, Test, ON/OFF<br>• Intelligent timer function with 1-15 hours option<br>• Dual load output, enhance the flexibility of the system<br>• Digital LED menu, only one key solve all setting simply<br>• Gel, Sealed and Flooded battery type option<br>• Waterproof design, IP68 | • Load work mode: Dusk to Dawn, Light On-rdual timer, Test, ON/OFF<br>• Intelligent timer function with 1-15 hours option<br>• Dual load output, enhance the flexibility of the system<br>• Digital LED menu, only one key solve all setting simply<br>• Gel, Sealed and Flooded battery type option<br>• Waterproof design, IP68 |
| Dimension                                                                           | 145x63x31mm                                                                                                                                                                                                                                                                                                                       | 145x83x45mm                                                                                                                                                                                                                                                                                                                       | 145x83x45mm                                                                                                                                                                                                                                                                                                                       |
| Mounting Dimension                                                                  | 135x45mm                                                                                                                                                                                                                                                                                                                          | 135x55mm                                                                                                                                                                                                                                                                                                                          | 135x55mm                                                                                                                                                                                                                                                                                                                          |
| Mounting Hole                                                                       | 64.5                                                                                                                                                                                                                                                                                                                              | 64.5                                                                                                                                                                                                                                                                                                                              | 64.5                                                                                                                                                                                                                                                                                                                              |
| Terminals                                                                           | 4 mm <sup>2</sup>                                                                                                                                                                                                                                                                                                                 | 6 mm <sup>2</sup>                                                                                                                                                                                                                                                                                                                 | 6 mm <sup>2</sup>                                                                                                                                                                                                                                                                                                                 |
| Net Weight                                                                          | 0.3kg                                                                                                                                                                                                                                                                                                                             | 0.4kg                                                                                                                                                                                                                                                                                                                             | 0.4kg                                                                                                                                                                                                                                                                                                                             |
| Working Temperature                                                                 | -35°C to +55°C                                                                                                                                                                                                                                                                                                                    | -35°C to +55°C                                                                                                                                                                                                                                                                                                                    | -35°C to +55°C                                                                                                                                                                                                                                                                                                                    |