

Indicative DRS Packages and Sample Bill of Materials

IDCOL Domestic Rooftop Solar (DRS) Program

Contents

System size (click to open)	No. of Packages	Battery options	Inverter types
Indicative Packages for 2 kWp DRS System	2	None, 1.2 kWh	On-Grid; On-Grid + Off-Grid
Indicative Packages for 3 kWp DRS System	3	None, 1.2 kWh, 2.4 kWh	On-Grid; On-Grid + Off-Grid; On-Grid Hybrid
Indicative Packages for 4 kWp DRS System	4	None, 1.2 kWh, 2.4 kWh	On-Grid; On-Grid + Off-Grid; On-Grid Hybrid
Indicative Packages for 5 kWp DRS System	5	None, 1.2 kWh, 2.4 kWh, 5 kWh, 10 kWh	On-Grid; On-Grid + Off-Grid; On-Grid Hybrid
Indicative Packages for 10 kWp DRS System	6	None, 1.2 kWh, 2.4 kWh, 5 kWh, 10 kWh, 15 kWh	On-Grid; On-Grid + Off-Grid; On-Grid Hybrid
Indicative Packages for 15 kWp DRS System	7	None, 1.2 kWh, 2.4 kWh, 5 kWh, 10 kWh, 15 kWh, 20 kWh	On-Grid; On-Grid + Off-Grid; On-Grid Hybrid
Indicative Packages for 20 kWp DRS System	8	None, 1.2 kWh, 2.4 kWh, 5 kWh, 10 kWh, 15 kWh, 20 kWh, 30 kWh	On-Grid; On-Grid + Off-Grid; On-Grid Hybrid
Indicative Packages for 30 kWp DRS System	9	None, 1.2 kWh, 2.4 kWh, 5 kWh, 10 kWh, 15 kWh, 20 kWh, 30 kWh, 40 kWh	On-Grid; On-Grid + Off-Grid; On-Grid Hybrid
Indicative Packages for 40 kWp DRS System	10	None, 1.2 kWh, 2.4 kWh, 5 kWh, 10 kWh, 15 kWh, 20 kWh, 30 kWh, 40 kWh, 50 kWh	On-Grid; On-Grid + Off-Grid; On-Grid Hybrid
Indicative Packages for 50 kWp DRS System	10	None, 1.2 kWh, 2.4 kWh, 5 kWh, 10 kWh, 15 kWh, 20 kWh, 30 kWh, 40 kWh, 50 kWh	On-Grid; On-Grid + Off-Grid; On-Grid Hybrid
Indicative Packages for 60 kWp DRS System	10	None, 1.2 kWh, 2.4 kWh, 5 kWh, 10 kWh, 15 kWh, 20 kWh, 30 kWh, 40 kWh, 50 kWh	On-Grid; On-Grid + Off-Grid; On-Grid Hybrid
Indicative Packages for 70 kWp DRS System	10	None, 1.2 kWh, 2.4 kWh, 5 kWh, 10 kWh, 15 kWh, 20 kWh, 30 kWh, 40 kWh, 50 kWh	On-Grid; On-Grid + Off-Grid; On-Grid Hybrid
Indicative Packages for 80 kWp DRS System	10	None, 1.2 kWh, 2.4 kWh, 5 kWh, 10 kWh, 15 kWh, 20 kWh, 30 kWh, 40 kWh, 50 kWh	On-Grid; On-Grid + Off-Grid; On-Grid Hybrid

Total: 94 indicative packages across 13 system sizes.

N.B. The quantity of solar PV modules, mounting structures and cables may vary depending on the solar PV module's rated power and site-specific design requirements.

Indicative Packages for 2 kWp DRS System

Package	Battery Energy Storage System (BESS)	Inverter Type	Sample Bill of Materials (BoM)
2-A	No back-up	On-Grid	1. Solar PV Module: Minimum 2kWp 2. Inverter: On-grid Inverter sized for 2kWp PV 3. Lithium-ion Battery: Not applicable (no back-up) 4. DC Cable: 30–40 m (15–20 m per kWp) 5. AC Cable: 30 m (approx.) 6. Mounting Structure: As required to mount 2kWp PV array 7. Energy Meter / Net Meter: 01 Set 8. Combiner Box and Protection Gears/Breakers: 01 Lot 9. Lightning Arrestors and Earthing System: 01 Lot 10. Remote Monitoring System (RMS): 01 Set 11. Other Related Accessories: 01 Lot
2-B	1.2 kWh Back-up	On-Grid + Off-Grid	1. Solar PV Module: Minimum 2kWp 2. Inverter: On-Grid Inverter sized for 2kWp PV + 1 kW off-grid/backup inverter-charger (or equivalent integrated on-grid/off-grid unit) for essential backup loads 3. Lithium-ion Battery: ~1.2 kWh 4. DC Cable: 30–40 m (15–20 m per kWp) 5. AC Cable: 30 m (approx.) 6. Mounting Structure: As required to mount 2kWp PV array 7. Energy Meter / Net Meter: 01 Set 8. Combiner Box and Protection Gears/Breakers: 01 Lot 9. Lightning Arrestors and Earthing System: 01 Lot 10. Remote Monitoring System (RMS): 01 Set 11. Other Related Accessories: 01 Lot

N.B. The quantity of solar PV modules, mounting structures and cables may vary depending on the solar PV module's rated power and site-specific design requirements.

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Indicative Packages for 3 kWp DRS System

Package	Battery Energy Storage System (BESS)	Inverter Type	Sample Bill of Materials (BoM)
3-A	No back-up	On-Grid	Solar PV Module: Minimum 3kWp Inverter: On-grid Inverter sized for 3kWp PV Lithium-ion Battery: Not applicable (no back-up) DC Cable: 45–60 m (15–20 m per kWp) AC Cable: 30 m (approx.) Mounting Structure: As required to mount 3kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
3-B	1.2 kWh BESS	On-Grid + Off-Grid	Solar PV Module: Minimum 3kWp Inverter: On-grid Inverter sized for 3kWp PV + 1 kW off-grid/backup inverter-charger (or equivalent integrated on-grid/off-grid unit) for essential backup loads Lithium-ion Battery: ~1.2 kWh DC Cable: 45–60 m (15–20 m per kWp) AC Cable: 30 m (approx.) Mounting Structure: As required to mount 3kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
3-C	2.4 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 3kWp Inverter: On-Grid Hybrid Inverter sized for 3kWp PV (on-grid + battery) Lithium-ion Battery: ~2.4 kWh DC Cable: 45–60 m (15–20 m per kWp) AC Cable: 30 m (approx.) Mounting Structure: As required to mount 3kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot

N.B. The quantity of solar PV modules, mounting structures and cables may vary depending on the solar PV module's rated power and site-specific design requirements.

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Indicative Packages for 4 kWp DRS System

Package	Battery Energy Storage System (BESS)	Inverter Type	Sample Bill of Materials (BoM)
4-A	No back-up	On-Grid	Solar PV Module: Minimum 4kWp Inverter: On-Grid Inverter sized for 4kWp PV Lithium-ion Battery: Not applicable (no back-up) DC Cable: 60–80 m (15–20 m per kWp) AC Cable: 30 m (approx.) Mounting Structure: As required to mount 4kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
4-B	1.2 kWh BESS	On-Grid + Off-Grid	Solar PV Module: Minimum 4kWp Inverter: On-Grid Inverter sized for 4kWp PV + 1 kW off-grid/backup inverter-charger (or equivalent integrated on-grid/off-grid unit) for essential backup loads Lithium-ion Battery: ~1.2 kWh DC Cable: 60–80 m (15–20 m per kWp) AC Cable: 30 m (approx.) Mounting Structure: As required to mount 4kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
4-C	2.4 kWh BESS	On-Grid + Off-Grid	Solar PV Module: Minimum 4kWp Inverter: 4 kW On-grid inverter + 2 kW off-grid/backup inverter-charger (or equivalent integrated on-grid/off-grid unit) for essential backup loads Lithium-ion Battery: ~2.4 kWh DC Cable: 60–80 m (15–20 m per kWp) AC Cable: 30 m (approx.) Mounting Structure: As required to mount 4kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
4-D	2.4 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 4kWp Inverter: On-Grid Hybrid Inverter sized for 4kWp PV (on-grid + battery) Lithium-ion Battery: ~2.4 kWh DC Cable: 60–80 m (15–20 m per kWp) AC Cable: 30 m (approx.) Mounting Structure: As required to mount 4kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot

N.B. The quantity of solar PV modules, mounting structures and cables may vary depending on the solar PV module's rated power and site-specific design requirements.

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Indicative Packages for 5 kWp DRS System

Package	Battery Energy Storage System (BESS)	Inverter Type	Sample Bill of Materials (BoM)
5-A	No back-up	On-Grid	Solar PV Module: Minimum 5kWp Inverter: On-Grid Inverter sized for 5kWp PV Lithium-ion Battery: Not applicable (no back-up) DC Cable: 75–100 m (15–20 m per kWp) AC Cable: 30 m (approx.) Mounting Structure: As required to mount 5kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
5-B	1.2 kWh BESS	On-Grid + Off-Grid	Solar PV Module: Minimum 5kWp Inverter: On-Grid Inverter sized for 5kWp PV + 1 kW off-grid/backup inverter-charger (or equivalent integrated on-grid/off-grid unit) for essential backup loads Lithium-ion Battery: ~1.2 kWh DC Cable: 75–100 m (15–20 m per kWp) AC Cable: 30 m (approx.) Mounting Structure: As required to mount 5kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
5-C	2.4 kWh BESS	On-Grid + Off-Grid	Solar PV Module: Minimum 5kWp Inverter: On-Grid Inverter sized for 5kWp PV + 2 kW off-grid/backup inverter-charger (or equivalent integrated on-grid/off-grid unit) for essential backup loads Lithium-ion Battery: ~2.4 kWh DC Cable: 75–100 m (15–20 m per kWp) AC Cable: 30 m (approx.) Mounting Structure: As required to mount 5kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
5-D	5 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 5kWp Inverter: On-Grid Hybrid Inverter sized for 5kWp PV (on-grid + battery) Lithium-ion Battery: ~5 kWh DC Cable: 75–100 m (15–20 m per kWp) AC Cable: 30 m (approx.) Mounting Structure: As required to mount 5kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
5-E	10 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 5kWp Inverter: On-Grid Hybrid Inverter sized for 5kWp PV (on-grid + battery) Lithium-ion Battery: ~10 kWh DC Cable: 75–100 m (15–20 m per kWp) AC Cable: 30 m (approx.) Mounting Structure: As required to mount 5kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot

N.B. The quantity of solar PV modules, mounting structures and cables may vary depending on the solar PV module's rated power and site-specific design requirements.

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Indicative Packages for 10 kWp DRS System

Package	Battery Energy Storage System (BESS)	Inverter Type	Sample Bill of Materials (BoM)
10-A	No back-up	On-Grid	Solar PV Module: Minimum 10kWp Inverter: On-Grid Inverter sized for 10kWp PV Lithium-ion Battery: Not applicable (no back-up) DC Cable: 150–200 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 10kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
10-B	1.2 kWh BESS	On-Grid + Off-Grid	Solar PV Module: Minimum 10kWp Inverter: On-Grid Inverter sized for 10kWp PV + 1 kW off-grid/backup inverter-charger (or equivalent integrated on-grid/off-grid unit) for essential backup loads Lithium-ion Battery: ~1.2 kWh DC Cable: 150–200 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 10kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
10-C	2.4 kWh BESS	On-Grid + Off-Grid	Solar PV Module: Minimum 10kWp Inverter: On-Grid Inverter sized for 10kWp PV + 2 kW off-grid/backup inverter-charger (or equivalent integrated on-grid/off-grid unit) for essential backup loads Lithium-ion Battery: ~2.4 kWh DC Cable: 150–200 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 10kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
10-D	5 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 10kWp Inverter: On-Grid Hybrid Inverter sized for 10kWp PV (on-grid + battery) Lithium-ion Battery: ~5 kWh DC Cable: 150–200 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 10kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
10-E	10 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 10kWp Inverter: On-Grid Hybrid Inverter sized for 10kWp PV (on-grid + battery) Lithium-ion Battery: ~10 kWh DC Cable: 150–200 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 10kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot

Package	Battery Energy Storage System (BESS)	Inverter Type	Sample Bill of Materials (BoM)
10-F	15 kWh BESS	On-Grid Hybrid	1. Solar PV Module: Minimum 10kWp 2. Inverter: On-Grid Hybrid Inverter sized for 10kWp PV (on-grid + battery) 3. Lithium-ion Battery: ~15 kWh 4. DC Cable: 150–200 m (15–20 m per kWp) 5. AC Cable: 100 m (approx.) 6. Mounting Structure: As required to mount 10kWp PV array 7. Energy Meter / Net Meter: 01 Set 8. Combiner Box and Protection Gears/Breakers: 01 Lot 9. Lightning Arrestors and Earthing System: 01 Lot 10. Remote Monitoring System (RMS): 01 Set 11. Other Related Accessories: 01 Lot

N.B. The quantity of solar PV modules, mounting structures and cables may vary depending on the solar PV module's rated power and site-specific design requirements.

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Indicative Packages for 15 kWp DRS System

Package	Battery Energy Storage System (BESS)	Inverter Type	Sample Bill of Materials (BoM)
15-A	No back-up	On-Grid	Solar PV Module: Minimum 15kWp Inverter: On-grid Inverter sized for 15kWp PV Lithium-ion Battery: Not applicable (no back-up) DC Cable: 225–300 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 15kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
15-B	1.2 kWh BESS	On-Grid + Off-Grid	Solar PV Module: Minimum 15kWp Inverter: On-grid Inverter sized for 15kWp PV + 1 kW off-grid/backup inverter-charger (or equivalent integrated on-grid/off-grid unit) for essential backup loads Lithium-ion Battery: ~1.2 kWh DC Cable: 225–300 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 15kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
15-C	2.4 kWh BESS	On-Grid + Off-Grid	Solar PV Module: Minimum 15kWp Inverter: On-grid Inverter sized for 15kWp PV + 2 kW off-grid/backup inverter-charger (or equivalent integrated on-grid/off-grid unit) for essential backup loads Lithium-ion Battery: ~2.4 kWh DC Cable: 225–300 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 15kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
15-D	5 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 15kWp Inverter: On-Grid Hybrid Inverter sized for 15kWp PV (on-grid + battery) Lithium-ion Battery: ~5 kWh DC Cable: 225–300 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 15kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
15-E	10 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 15kWp Inverter: On-Grid Hybrid Inverter sized for 15kWp PV (on-grid + battery) Lithium-ion Battery: ~10 kWh DC Cable: 225–300 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 15kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot

Package	Battery Energy Storage System (BESS)	Inverter Type	Sample Bill of Materials (BoM)
15-F	15 kWh BESS	On-Grid Hybrid	1. Solar PV Module: Minimum 15kWp 2. Inverter: On-Grid Hybrid Inverter sized for 15kWp PV (on-grid + battery) 3. Lithium-ion Battery: ~15 kWh 4. DC Cable: 225–300 m (15–20 m per kWp) 5. AC Cable: 100 m (approx.) 6. Mounting Structure: As required to mount 15kWp PV array 7. Energy Meter / Net Meter: 01 Set 8. Combiner Box and Protection Gears/Breakers: 01 Lot 9. Lightning Arrestors and Earthing System: 01 Lot 10. Remote Monitoring System (RMS): 01 Set 11. Other Related Accessories: 01 Lot
15-G	20 kWh BESS	On-Grid Hybrid	1. Solar PV Module: Minimum 15kWp 2. Inverter: On-Grid Hybrid Inverter sized for 15kWp PV (on-grid + battery) 3. Lithium-ion Battery: ~20 kWh 4. DC Cable: 225–300 m (15–20 m per kWp) 5. AC Cable: 100 m (approx.) 6. Mounting Structure: As required to mount 15kWp PV array 7. Energy Meter / Net Meter: 01 Set 8. Combiner Box and Protection Gears/Breakers: 01 Lot 9. Lightning Arrestors and Earthing System: 01 Lot 10. Remote Monitoring System (RMS): 01 Set 11. Other Related Accessories: 01 Lot

N.B. The quantity of solar PV modules, mounting structures and cables may vary depending on the solar PV module's rated power and site-specific design requirements.

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Indicative Packages for 20 kWp DRS System

Package	Battery Energy Storage System (BESS)	Inverter Type	Sample Bill of Materials (BoM)
20-A	No back-up	On-Grid	Solar PV Module: Minimum 20kWp Inverter: On-Grid Inverter sized for 20kWp PV Lithium-ion Battery: Not applicable (no back-up) DC Cable: 300–400 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 20kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
20-B	1.2 kWh BESS	On-Grid + Off-Grid	Solar PV Module: Minimum 20kWp Inverter: On-Grid Inverter sized for 20kWp PV + 1 kW off-grid/backup inverter-charger (or equivalent integrated on-grid/off-grid unit) for essential backup loads Lithium-ion Battery: ~1.2 kWh DC Cable: 300–400 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 20kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
20-C	2.4 kWh BESS	On-Grid + Off-Grid	Solar PV Module: Minimum 20kWp Inverter: On-Grid Inverter sized for 20kWp PV + 2 kW off-grid/backup inverter-charger (or equivalent integrated on-grid/off-grid unit) for essential backup loads Lithium-ion Battery: ~2.4 kWh DC Cable: 300–400 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 20kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
20-D	5 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 20kWp Inverter: On-Grid Hybrid Inverter sized for 20kWp PV (on-grid + battery) Lithium-ion Battery: ~5 kWh DC Cable: 300–400 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 20kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
20-E	10 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 20kWp Inverter: On-Grid Hybrid Inverter sized for 20kWp PV (on-grid + battery) Lithium-ion Battery: ~10 kWh DC Cable: 300–400 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 20kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot

Package	Battery Energy Storage System (BESS)	Inverter Type	Sample Bill of Materials (BoM)
20-F	15 kWh BESS	On-Grid Hybrid	1. Solar PV Module: Minimum 20kWp 2. Inverter: On-Grid Hybrid Inverter sized for 20kWp PV (on-grid + battery) 3. Lithium-ion Battery: ~15 kWh 4. DC Cable: 300–400 m (15–20 m per kWp) 5. AC Cable: 100 m (approx.) 6. Mounting Structure: As required to mount 20kWp PV array 7. Energy Meter / Net Meter: 01 Set 8. Combiner Box and Protection Gears/Breakers: 01 Lot 9. Lightning Arrestors and Earthing System: 01 Lot 10. Remote Monitoring System (RMS): 01 Set 11. Other Related Accessories: 01 Lot
20-G	20 kWh BESS	On-Grid Hybrid	1. Solar PV Module: Minimum 20kWp 2. Inverter: On-Grid Hybrid Inverter sized for 20kWp PV (on-grid + battery) 3. Lithium-ion Battery: ~20 kWh 4. DC Cable: 300–400 m (15–20 m per kWp) 5. AC Cable: 100 m (approx.) 6. Mounting Structure: As required to mount 20kWp PV array 7. Energy Meter / Net Meter: 01 Set 8. Combiner Box and Protection Gears/Breakers: 01 Lot 9. Lightning Arrestors and Earthing System: 01 Lot 10. Remote Monitoring System (RMS): 01 Set 11. Other Related Accessories: 01 Lot
20-H	30 kWh BESS	On-Grid Hybrid	1. Solar PV Module: Minimum 20kWp 2. Inverter: On-Grid Hybrid Inverter sized for 20kWp PV (on-grid + battery) 3. Lithium-ion Battery: ~30 kWh 4. DC Cable: 300–400 m (15–20 m per kWp) 5. AC Cable: 100 m (approx.) 6. Mounting Structure: As required to mount 20kWp PV array 7. Energy Meter / Net Meter: 01 Set 8. Combiner Box and Protection Gears/Breakers: 01 Lot 9. Lightning Arrestors and Earthing System: 01 Lot 10. Remote Monitoring System (RMS): 01 Set 11. Other Related Accessories: 01 Lot

N.B. The quantity of solar PV modules, mounting structures and cables may vary depending on the solar PV module's rated power and site-specific design requirements.

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Indicative Packages for 30 kWp DRS System

Package	Battery Energy Storage System (BESS)	Inverter Type	Sample Bill of Materials (BoM)
30-A	No back-up	On-Grid	Solar PV Module: Minimum 30kWp Inverter: On-grid Inverter sized for 30kWp PV Lithium-ion Battery: Not applicable (no back-up) DC Cable: 450–600 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 30kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
30-B	1.2 kWh BESS	On-Grid + Off-Grid	Solar PV Module: Minimum 30kWp Inverter: On-grid Inverter sized for 30kWp PV + 1 kW off-grid/backup inverter-charger (or equivalent integrated on-grid/off-grid unit) for essential backup loads Lithium-ion Battery: ~1.2 kWh DC Cable: 450–600 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 30kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
30-C	2.4 kWh BESS	On-Grid + Off-Grid	Solar PV Module: Minimum 30kWp Inverter: On-grid Inverter sized for 30kWp PV + 2 kW off-grid/backup inverter-charger (or equivalent integrated on-grid/off-grid unit) for essential backup loads Lithium-ion Battery: ~2.4 kWh DC Cable: 450–600 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 30kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
30-D	5 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 30kWp Inverter: On-Grid Hybrid Inverter sized for 30kWp PV (on-grid + battery) Lithium-ion Battery: ~5 kWh DC Cable: 450–600 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 30kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
30-E	10 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 30kWp Inverter Capacity: On-Grid Hybrid Inverter sized for 30 kWp PV (on-grid + battery) Lithium-ion Battery: ~10 kWh DC Cable: 450–600 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 30kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot

Package	Battery Energy Storage System (BESS)	Inverter Type	Sample Bill of Materials (BoM)
30-F	15 kWh BESS	On-Grid Hybrid	1. Solar PV Module: Minimum 30kWp 2. Inverter: On-Grid Hybrid Inverter sized for 30kWp PV (on-grid + battery) 3. Lithium-ion Battery: ~15 kWh 4. DC Cable: 450–600 m (15–20 m per kWp) 5. AC Cable: 100 m (approx.) 6. Mounting Structure: As required to mount 30kWp PV array 7. Energy Meter / Net Meter: 01 Set 8. Combiner Box and Protection Gears/Breakers: 01 Lot 9. Lightning Arrestors and Earthing System: 01 Lot 10. Remote Monitoring System (RMS): 01 Set 11. Other Related Accessories: 01 Lot
30-G	20 kWh BESS	On-Grid Hybrid	1. Solar PV Module: Minimum 30kWp 2. Inverter: On-Grid Hybrid Inverter sized for 30kWp PV (on-grid + battery) 3. Lithium-ion Battery: ~20 kWh 4. DC Cable: 450–600 m (15–20 m per kWp) 5. AC Cable: 100 m (approx.) 6. Mounting Structure: As required to mount 30kWp PV array 7. Energy Meter / Net Meter: 01 Set 8. Combiner Box and Protection Gears/Breakers: 01 Lot 9. Lightning Arrestors and Earthing System: 01 Lot 10. Remote Monitoring System (RMS): 01 Set 11. Other Related Accessories: 01 Lot
30-H	30 kWh BESS	On-Grid Hybrid	1. Solar PV Module: Minimum 30kWp 2. Inverter: On-Grid Hybrid Inverter sized for 30kWp PV (on-grid + battery) 3. Lithium-ion Battery: ~30 kWh 4. DC Cable: 450–600 m (15–20 m per kWp) 5. AC Cable: 100 m (approx.) 6. Mounting Structure: As required to mount 30kWp PV array 7. Energy Meter / Net Meter: 01 Set 8. Combiner Box and Protection Gears/Breakers: 01 Lot 9. Lightning Arrestors and Earthing System: 01 Lot 10. Remote Monitoring System (RMS): 01 Set 11. Other Related Accessories: 01 Lot
30-I	40 kWh BESS	On-Grid Hybrid	1. Solar PV Module: Minimum 30kWp 2. Inverter: On-Grid Hybrid Inverter sized for 30kWp PV (on-grid + battery) 3. Lithium-ion Battery: ~40 kWh 4. DC Cable: 450–600 m (15–20 m per kWp) 5. AC Cable: 100 m (approx.) 6. Mounting Structure: As required to mount 30kWp PV array 7. Energy Meter / Net Meter: 01 Set 8. Combiner Box and Protection Gears/Breakers: 01 Lot 9. Lightning Arrestors and Earthing System: 01 Lot 10. Remote Monitoring System (RMS): 01 Set 11. Other Related Accessories: 01 Lot

N.B. The quantity of solar PV modules, mounting structures and cables may vary depending on the solar PV module's rated power and site-specific design requirements.

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Indicative Packages for 40 kWp DRS System

Package	Battery Energy Storage System (BESS)	Inverter Type	Sample Bill of Materials (BoM)
40-A	No back-up	On-Grid	Solar PV Module: Minimum 40kWp Inverter: On-grid Inverter sized for 40kWp PV Lithium-ion Battery: Not applicable (no back-up) DC Cable: 600–800 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 40kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
40-B	1.2 kWh BESS	On-Grid + Off-Grid	Solar PV Module: Minimum 40kWp Inverter: On-grid Inverter sized for 40kWp PV + 1 kW off-grid/backup inverter-charger (or equivalent integrated on-grid/off-grid unit) for essential backup loads Lithium-ion Battery: ~1.2 kWh DC Cable: 600–800 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 40kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
40-C	2.4 kWh BESS	On-Grid + Off-Grid	Solar PV Module: Minimum 40kWp Inverter: On-grid Inverter sized for 40kWp PV + 2 kW off-grid/backup inverter-charger (or equivalent integrated on-grid/off-grid unit) for essential backup loads Lithium-ion Battery: ~2.4 kWh DC Cable: 600–800 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 40kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
40-D	5 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 40kWp Inverter: On-Grid Hybrid Inverter sized for 40kWp PV (on-grid + battery) Lithium-ion Battery: ~5 kWh DC Cable: 600–800 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 40kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
40-E	10 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 40kWp Inverter: On-Grid Hybrid Inverter sized for 40kWp PV (on-grid + battery) Lithium-ion Battery: ~10 kWh DC Cable: 600–800 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 40kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot

Package	Battery Energy Storage System (BESS)	Inverter Type	Sample Bill of Materials (BoM)
40-F	15 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 40kWp Inverter: On-Grid Hybrid Inverter sized for 40kWp PV (on-grid + battery) Lithium-ion Battery: ~15 kWh DC Cable: 600–800 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 40kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
40-G	20 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 40kWp Inverter: On-Grid Hybrid Inverter sized for 40kWp PV (on-grid + battery) Lithium-ion Battery: ~20 kWh DC Cable: 600–800 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 40kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
40-H	30 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 40kWp Inverter: On-Grid Hybrid Inverter sized for 40kWp PV (on-grid + battery) Lithium-ion Battery: ~30 kWh DC Cable: 600–800 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 40kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
40-I	40 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 40kWp Inverter: On-Grid Hybrid Inverter sized for 40kWp PV (on-grid + battery) Lithium-ion Battery: ~40 kWh DC Cable: 600–800 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 40kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
40-J	50 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 40kWp Inverter: On-Grid Hybrid Inverter sized for 40kWp PV (on-grid + battery) Lithium-ion Battery: ~50 kWh DC Cable: 600–800 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 40kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot

N.B. The quantity of solar PV modules, mounting structures and cables may vary depending on the solar PV module's rated power and site-specific design requirements.

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Indicative Packages for 50 kWp DRS System

Package	Battery Energy Storage System (BESS)	Inverter Type	Sample Bill of Materials (BoM)
50-A	No back-up	On-Grid	Solar PV Module: Minimum 50kWp Inverter: On-grid Inverter sized for 50kWp PV Lithium-ion Battery: Not applicable (no back-up) DC Cable: 750–1000 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 50kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
50-B	1.2 kWh BESS	On-Grid + Off-Grid	Solar PV Module: Minimum 50kWp Inverter: On-grid Inverter sized for 50kWp PV + 1 kW off-grid/backup inverter-charger (or equivalent integrated on-grid/off-grid unit) for essential backup loads Lithium-ion Battery: ~1.2 kWh DC Cable: 750–1000 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 50kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
50-C	2.4 kWh BESS	On-Grid + Off-Grid	Solar PV Module: Minimum 50kWp Inverter: On-grid Inverter sized for 50kWp PV + 2 kW off-grid/backup inverter-charger (or equivalent integrated on-grid/off-grid unit) for essential backup loads Lithium-ion Battery: ~2.4 kWh DC Cable: 750–1000 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 50kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
50-D	5 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 50kWp Inverter: On-Grid Hybrid Inverter sized for 50kWp PV (on-grid + battery) Lithium-ion Battery: ~5 kWh DC Cable: 750–1000 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 50kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
50-E	10 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 50kWp Inverter: On-Grid Hybrid Inverter sized for 50kWp PV (on-grid + battery) Lithium-ion Battery: ~10 kWh DC Cable: 750–1000 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 50kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot

Package	Battery Energy Storage System (BESS)	Inverter Type	Sample Bill of Materials (BoM)
50-F	15 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 50kWp Inverter: On-Grid Hybrid Inverter sized for 50kWp PV (on-grid + battery) Lithium-ion Battery: ~15 kWh DC Cable: 750–1000 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 50kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
50-G	20 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 50kWp Inverter: On-Grid Hybrid Inverter sized for 50kWp PV (on-grid + battery) Lithium-ion Battery: ~20 kWh DC Cable: 750–1000 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 50kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
50-H	30 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 50kWp Inverter: On-Grid Hybrid Inverter sized for 50kWp PV (on-grid + battery) Lithium-ion Battery: ~30 kWh DC Cable: 750–1000 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 50kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
50-I	40 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 50kWp Inverter: On-Grid Hybrid Inverter sized for 50kWp PV (on-grid + battery) Lithium-ion Battery: ~40 kWh DC Cable: 750–1000 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 50kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
50-J	50 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 50kWp Inverter: On-Grid Hybrid Inverter sized for 50kWp PV (on-grid + battery) Lithium-ion Battery: ~50 kWh DC Cable: 750–1000 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 50kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot

N.B. The quantity of solar PV modules, mounting structures and cables may vary depending on the solar PV module's rated power and site-specific design requirements.

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Indicative Packages for 60 kWp DRS System

Package	Battery Energy Storage System (BESS)	Inverter Type	Sample Bill of Materials (BoM)
60-A	No back-up	On-Grid	Solar PV Module: Minimum 60kWp Inverter: On-grid Inverter sized for 60kWp PV Lithium-ion Battery: Not applicable (no back-up) DC Cable: 900–1200 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 60kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
60-B	1.2 kWh BESS	On-Grid + Off-Grid	Solar PV Module: Minimum 60kWp Inverter: On-grid Inverter sized for 60kWp PV + 1 kW off-grid/backup inverter-charger (or equivalent integrated on-grid/off-grid unit) for essential backup loads Lithium-ion Battery: ~1.2 kWh DC Cable: 900–1200 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 60kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
60-C	2.4 kWh BESS	On-Grid + Off-Grid	Solar PV Module: Minimum 60kWp Inverter: On-grid Inverter sized for 60kWp PV + 2 kW off-grid/backup inverter-charger (or equivalent integrated on-grid/off-grid unit) for essential backup loads Lithium-ion Battery: ~2.4 kWh DC Cable: 900–1200 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 60kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
60-D	5 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 60kWp Inverter: On-Grid Hybrid Inverter sized for 60kWp PV (on-grid + battery) Lithium-ion Battery: ~5 kWh DC Cable: 900–1200 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 60kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
60-E	10 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 60kWp Inverter: On-Grid Hybrid Inverter sized for 60kWp PV (on-grid + battery) Lithium-ion Battery: ~10 kWh DC Cable: 900–1200 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 60kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot

Package	Battery Energy Storage System (BESS)	Inverter Type	Sample Bill of Materials (BoM)
60-F	15 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 60kWp Inverter: On-Grid Hybrid Inverter sized for 60kWp PV (on-grid + battery) Lithium-ion Battery: ~15 kWh DC Cable: 900–1200 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 60kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
60-G	20 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 60kWp Inverter: On-Grid Hybrid Inverter sized for 60kWp PV (on-grid + battery) Lithium-ion Battery: ~20 kWh DC Cable: 900–1200 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 60kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
60-H	30 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 60kWp Inverter: On-Grid Hybrid Inverter sized for 60kWp PV (on-grid + battery) Lithium-ion Battery: ~30 kWh DC Cable: 900–1200 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 60kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
60-I	40 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 60kWp Inverter: On-Grid Hybrid Inverter sized for 60kWp PV (on-grid + battery) Lithium-ion Battery: ~40 kWh DC Cable: 900–1200 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 60kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
60-J	50 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 60kWp Inverter: On-Grid Hybrid Inverter sized for 60kWp PV (on-grid + battery) Lithium-ion Battery: ~50 kWh DC Cable: 900–1200 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 60kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot

N.B. The quantity of solar PV modules, mounting structures and cables may vary depending on the solar PV module's rated power and site-specific design requirements.

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Indicative Packages for 70 kWp DRS System

Package	Battery Energy Storage System (BESS)	Inverter Type	Sample Bill of Materials (BoM)
70-A	No back-up	On-Grid	Solar PV Module: Minimum 70kWp Inverter: On-grid Inverter sized for 70kWp PV Lithium-ion Battery: Not applicable (no back-up) DC Cable: 1050–1400 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 70kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
70-B	1.2 kWh BESS	On-Grid + Off-Grid	Solar PV Module: Minimum 70kWp Inverter: On-grid Inverter sized for 70kWp PV + 1 kW off-grid/backup inverter-charger (or equivalent integrated on-grid/off-grid unit) for essential backup loads Lithium-ion Battery: ~1.2 kWh DC Cable: 1050–1400 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 70kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
70-C	2.4 kWh BESS	On-Grid + Off-Grid	Solar PV Module: Minimum 70kWp Inverter: On-grid Inverter sized for 70kWp PV + 2 kW off-grid/backup inverter-charger (or equivalent integrated on-grid/off-grid unit) for essential backup loads Lithium-ion Battery: ~2.4 kWh DC Cable: 1050–1400 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 70kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
70-D	5 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 70kWp Inverter: On-Grid Hybrid Inverter sized for 70kWp PV (on-grid + battery) Lithium-ion Battery: ~5 kWh DC Cable: 1050–1400 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 70kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
70-E	10 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 70kWp Inverter: On-Grid Hybrid Inverter sized for 70kWp PV (on-grid + battery) Lithium-ion Battery: ~10 kWh DC Cable: 1050–1400 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 70kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot

Package	Battery Energy Storage System (BESS)	Inverter Type	Sample Bill of Materials (BoM)
70-F	15 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 70kWp Inverter: On-Grid Hybrid Inverter sized for 70kWp PV (on-grid + battery) Lithium-ion Battery: ~15 kWh DC Cable: 1050–1400 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 70kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
70-G	20 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 70kWp Inverter: On-Grid Hybrid Inverter sized for 70kWp PV (on-grid + battery) Lithium-ion Battery: ~20 kWh DC Cable: 1050–1400 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 70kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
70-H	30 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 70kWp Inverter: On-Grid Hybrid Inverter sized for 70kWp PV (on-grid + battery) Lithium-ion Battery: ~30 kWh DC Cable: 1050–1400 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 70kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
70-I	40 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 70kWp Inverter: On-Grid Hybrid Inverter sized for 70kWp PV (on-grid + battery) Lithium-ion Battery: ~40 kWh DC Cable: 1050–1400 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 70kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
70-J	50 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 70kWp Inverter: On-Grid Hybrid Inverter sized for 70kWp PV (on-grid + battery) Lithium-ion Battery: ~50 kWh DC Cable: 1050–1400 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 70kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot

PV modules, mounting structures and cables may vary depending on the solar PV module's rated power and site-specific design requirements. N.B. The quantity of solar

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Indicative Packages for 80 kWp DRS System

Package	Battery Energy Storage System (BESS)	Inverter Type	Sample Bill of Materials (BoM)
80-A	No back-up	On-Grid	Solar PV Module: Minimum 80kWp Inverter: On-grid Inverter sized for 80kWp PV Lithium-ion Battery: Not applicable (no back-up) DC Cable: 1200–1600 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 80kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
80-B	1.2 kWh BESS	On-Grid + Off-Grid	Solar PV Module: Minimum 80kWp Inverter: On-grid Inverter sized for 80kWp PV + 1 kW off-grid/backup inverter-charger (or equivalent integrated on-grid/off-grid unit) for essential backup loads Lithium-ion Battery: ~1.2 kWh DC Cable: 1200–1600 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 80kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
80-C	2.4 kWh BESS	On-Grid + Off-Grid	Solar PV Module: Minimum 80kWp Inverter: On-grid Inverter sized for 80kWp PV + 2 kW off-grid/backup inverter-charger (or equivalent integrated on-grid/off-grid unit) for essential backup loads Lithium-ion Battery: ~2.4 kWh DC Cable: 1200–1600 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 80kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
80-D	5 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 80kWp Inverter: On-Grid Hybrid Inverter sized for 80kWp PV (on-grid + battery) Lithium-ion Battery: ~5 kWh DC Cable: 1200–1600 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 80kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
80-E	10 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 80kWp Inverter: On-Grid Hybrid Inverter sized for 80kWp PV (on-grid + battery) Lithium-ion Battery: ~10 kWh DC Cable: 1200–1600 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 80kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot

Package	Battery Energy Storage System (BESS)	Inverter Type	Sample Bill of Materials (BoM)
80-F	15 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 80kWp Inverter: On-Grid Hybrid Inverter sized for 80kWp PV (on-grid + battery) Lithium-ion Battery: ~15 kWh DC Cable: 1200–1600 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 80kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
80-G	20 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 80kWp Inverter: On-Grid Hybrid Inverter sized for 80kWp PV (on-grid + battery) Lithium-ion Battery: ~20 kWh DC Cable: 1200–1600 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 80kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
80-H	30 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 80kWp Inverter: On-Grid Hybrid Inverter sized for 80kWp PV (on-grid + battery) Lithium-ion Battery: ~30 kWh DC Cable: 1200–1600 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 80kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
80-I	40 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 80kWp Inverter: On-Grid Hybrid Inverter sized for 80kWp PV (on-grid + battery) Lithium-ion Battery: ~40 kWh DC Cable: 1200–1600 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 80kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot
80-J	50 kWh BESS	On-Grid Hybrid	Solar PV Module: Minimum 80kWp Inverter: On-Grid Hybrid Inverter sized for 80kWp PV (on-grid + battery) Lithium-ion Battery: ~50 kWh DC Cable: 1200–1600 m (15–20 m per kWp) AC Cable: 100 m (approx.) Mounting Structure: As required to mount 80kWp PV array Energy Meter / Net Meter: 01 Set Combiner Box and Protection Gears/Breakers: 01 Lot Lightning Arrestors and Earthing System: 01 Lot Remote Monitoring System (RMS): 01 Set Other Related Accessories: 01 Lot

N.B. The quantity of solar PV modules, mounting structures and cables may vary depending on the solar PV module's rated power and site-specific design requirements.

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