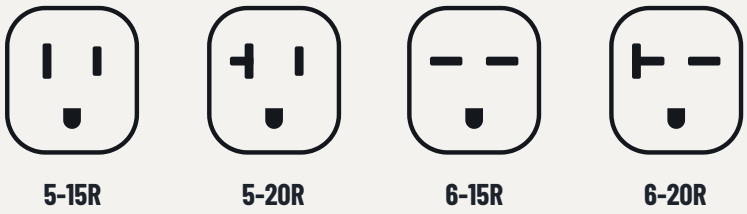
WIRING DEVICES · US NEMA CONFIGURATIONS

NEMA PLUG AND RECEPTACLE CHART

دليل أفياش ومقابس NEMA الأمريكية

RECOGNISE THE RECEPTACLE BY ITS SLOTS



- **5-15R:** two vertical slots, the longer one is neutral.
- **5-20R:** T-shaped neutral slot: takes 5-15P and 5-20P.
- **6-15R:** two horizontal slots: 250 V, no neutral.
- **6-20R:** one T-shaped slot: takes 6-15P and 6-20P.
- **L** = locking (twist-lock) · **P** plug · **R** receptacle · **C** cord connector.

COMMON CONFIGURATIONS AND LOADS

NEMA	RATING	AMPS	POLES/WIRES	MAXIMUM LOAD	CONTINUOUS 80%	TYPICAL USE
5-15	125 V	15 A	2P3W	1,800 W at 120 V	1,440 W	Standard US outlet, small equipment
5-20	125 V	20 A	2P3W	2,400 W at 120 V	1,920 W	Hospital and commercial outlets
6-15	250 V	15 A	2P3W	3,450 W at 230 V	2,760 W	230 V equipment, US-style plug
6-20	250 V	20 A	2P3W	4,600 W at 230 V	3,680 W	Compressors, lab and kitchen units
6-30	250 V	30 A	2P3W	6,900 W at 230 V	5,520 W	Welders, larger single-phase loads
14-30	125/250 V	30 A	3P4W	7,200 W at 240 V	5,760 W	Dryers, 120/240 V equipment
14-50	125/250 V	50 A	3P4W	12.0 kW at 240 V	9,600 W	Ranges, EV charging, RVs
L5-20	125 V	20 A	2P3W	2,400 W at 120 V	1,920 W	Locking: IT racks, stage, sites
L5-30	125 V	30 A	2P3W	3,600 W at 120 V	2,880 W	Locking: generators, marinas
L6-20	250 V	20 A	2P3W	4,600 W at 230 V	3,680 W	Locking: servers, PDUs
L6-30	250 V	30 A	2P3W	6,900 W at 230 V	5,520 W	Locking: PDUs, machines
L14-20	125/250 V	20 A	3P4W	4,800 W at 240 V	3,840 W	Locking: generators, split-phase
L14-30	125/250 V	30 A	3P4W	7,200 W at 240 V	5,760 W	Locking: generators, transfer
L15-30	250 V 3φ	30 A	3P4W	12.5 kVA at 240 V 3φ	9,980 VA	Locking: 3-phase machines
L16-30	480 V 3φ	30 A	3P4W	24.9 kVA at 480 V 3φ	20.0 kVA	Locking: 480 V machines
L21-20	120/208 V 3φY	20 A	4P5W	7,210 VA at 208 V 3φ	5,760 VA	Locking: 3-phase wye, PDUs
L21-30	120/208 V 3φY	30 A	4P5W	10.8 kVA at 208 V 3φ	8,650 VA	Locking: data centre PDUs

Saudi voltages: 5-series devices are rated 125 V: use them only on 120–127 V circuits, never on 230 V. On 230 V use the 6-series or L6.

Loads: watts = volts × amps; three-phase kVA = 1.732 × V × A. A load that runs 3 hours or more should stay at 80% of the rating.

Hospitals: hospital-grade receptacles (green dot) in patient care areas; red devices on the emergency branch; tamper-resistant where children are.

Above 30 A or wet areas: UL 1682 pin and sleeve devices (20 to 60 A, watertight) instead of NEMA blades.

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For guidance: confirm the rating on the device and the electrical code for the site.