

LITHIUM ION

safety checklist

STORAGE SAFETY

- ☐ SEPARATE NEW, IN-USE, AND DAMAGED BATTERIES IN CLEARLY LABELED, DESIGNATED AREAS
- ☐ STORE BATTERIES AT MANUFACTURER-RECOMMENDED TEMPERATURES (TYPICALLY 40°F–80°F)
- ☐ AVOID STACKING OR CRUSHING BATTERIES; USE RACKS OR SHELVING
- ☐ KEEP BATTERIES AWAY FROM FLAMMABLE MATERIALS AND IGNITION SOURCES
- ☐ UTILIZE FIRE-RATED OR EXPLOSION-RESISTANT UNITS FOR BULK OR OVERNIGHT STORAGE
- ☐ DO NOT STORE LITHIUM-ION BATTERIES WITH OTHER BATTERY CHEMISTRIES
- ☐ LABEL STORAGE AREAS WITH APPROPRIATE HAZARD SIGNAGE
- ☐ COMPLY WITH NFPA 855 FOR LITHIUM BATTERY STORAGE BUILDING GUIDELINES WHEN APPLICABLE

CHARGING PRACTICES

- ☐ USE ONLY MANUFACTURER-APPROVED CHARGERS AND CORDS
- ☐ ENSURE CHARGERS ARE NOT OVERLOADING ELECTRICAL CIRCUITS
- ☐ MAINTAIN CHARGE LEVELS BETWEEN 30%–80% WHEN POSSIBLE TO REDUCE STRESS
- ☐ CHARGE BATTERIES ON NON-COMBUSTIBLE SURFACES, AWAY FROM EGRESS ROUTES
- ☐ PROVIDE ADEQUATE VENTILATION OR EXHAUST FOR HIGH-VOLUME CHARGING AREAS
- ☐ INSTALL GAS/SMOKE DETECTION IF REQUIRED BY LOCAL FIRE CODE
- ☐ LOCK OR RESTRICT ACCESS TO CHARGING AREAS WHEN UNATTENDED
- ☐ REGULARLY INSPECT CORDS AND CHARGERS FOR WEAR OR DAMAGE
- ☐ CONSIDER 5S PRINCIPALS TO ENSURE YOU'RE USING OEM PROPERLY. SHADOWBOARDS, ETC

TRANSPORT

- ☐ REMOVE DAMAGED OR SUSPECT BATTERIES FROM USE BEFORE TRANSPORT
- ☐ USE NON-CONDUCTIVE, CRUSH-RESISTANT CONTAINERS WITH VENTING CAPABILITY
- ☐ KEEP BATTERIES OUT OF DIRECT CONTACT WITH METAL TOOLS OR CONDUCTIVE SURFACES
- ☐ DO NOT TRANSPORT BATTERIES IN OCCUPIED PASSENGER COMPARTMENTS
- ☐ LABEL TRANSPORT CONTAINERS WITH BATTERY HAZARD IDENTIFICATION
- ☐ AVOID EXTREME TEMPERATURES OR DIRECT SUNLIGHT DURING TRANSPORT
- ☐ FOLLOW DOT GUIDELINES FOR INTERNAL MOVEMENT OF HAZARDOUS MATERIALS, IF APPLICABLE