# **Usage Manual**



# Photovoltaic switch waterproof box

No.288th. Wei 17 Road, Economic Development Zone, Yueqing City Zhejiang China. Tel: 0086-577-62718777 Email:info@etek-china.com Thank you for choosing EKD6-EL32R Series Enclosure DC Isolator. Please read this manual before installation, operation and maintenance.

# STANDARD AND QUALITY CERTIFICATES

# (€ RoHS

IP66 box-type design:

Screw fixing doesn't interfere with the sealing performance; Multiple mechanical seals around the shaft guarantee the reliability of a waterproof and moisture-proof design:

Stainless steel rotary screw does not rust nor damp;

Standard cable interface available with seal rings;

Internal sealing in top and bottom covers, combined with 2 screws, guarantee an IP66 protection degree;

SAFE-LOCK with three rotational positions, reducing the risk of tampering.

The isolator is compatible with various cables: M25, M20, M16, and M12, and with optional waterproof cable joints and MC4 joints.

#### Characteristics of the integration inside the on/of switch:

Compact structure, with optional 2 or 4 DC poles;

Incorporating a user independent switching action, spring mechanism, to ensure a very fast break/make action, ensuring that the disconnection of the load circuits and suppression of the arc normally occurs within 5ms.

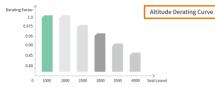
Self-cleaning contact mechanism, reducing power loss and abrasion, improving the conduction performance, reducing the resistance and energy loss of the switch, extending the on-off lifecycle.

Double arc extinguishing mechanism, magnetic and arc chutes, restrain the arc eficiency, especially DC arcs.

#### Technical Data

Data according to IEC60947-3(ed.3.2):2815.6884048.3. Utilization category DC PYLIDC-PYL									No.of	Book Months	Contact	
500V	600V	700V	800V	900V	1000V	1200V	1500V	Series	Strings	Part Number	Configuration	
32	32	32	32	23	16	13	7	2	1	EKD6- EL32R-2	*	
58	58	58	45	23	16	13	7	4	1	EKD6- EL32R-2H	더	
32	32	32	32	23	16	13	7	4	2	EKD6- EL32R-4	3	
32	32	32	32	32	32	32	23	4	1	EKD6- EL32R-4S	豆	
32	32	32	32	32	32	32	23	4	1	EKD6- EL32R-4B	C.	
32	32	32	32	32	32	32	23	4	1	EKD6- EL32R-4T	3	

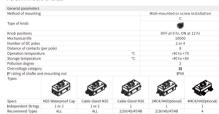
### **Technical Data**



Data according to IEC60947-3(ed.3.2):2015,UL508i,GB14048.3. Utilization category DC-PV1 / DC-PV2.

Main Parameters		EL32R			
Rated insulation voltage	U,	V	1500		
Rated thermal current L_		A	32		
Rated impulse withstand voltage	U	v	8000		
Rated short-circuit making capacity	L	Α.	2H	1700	
			2,4	1000	
Rated conditional short-circuit current	itional short-circuit current L		5000		
Max. fuse size	A	80			
Maximum cable cross sections (incl. jumper)					
Solid or standard	mm'	4-16			
Flexible	mm'	4-10			
Flexible (+ multicore cable end)	mm1	4-10			
Torque					
Tightening torque terminal screws M4.	Nm	1.2-1.8			
Tightening torque panel mounting screws ST4.2(304 stair	Nm	1.5-2.0			
Tightening torque knob screws M3	Nm	0.5-0.7			
Switching on or off torque	Nm	0.9-1.3			

#### **Technical Data**



# Overall dimensions and mounting dimensions

















# Overall dimensions and mounting dimensions

