

tDriver-EC1.16/18/20/24
SMART PV COMBINER BOX



Product Features

Intelligent

- Branch power metering function, accurate measurement of string power generation
- Warning function against abnormal temperature, voltage, current
- Coordinated with integrated inverter-MV and CRRC FORESEE platform for module fault diagnosis

Cost-saving

- Max. branch current 22A, compatible with 600Wp+ PV module
- Cu/Al outlet cable options, easy for selection
- 16 to 24 input options, flexible adaptation

Reliable

- IP65 protection rating, adapt to various environments 1500V specific PV fuse, both positive and negative terminal, higher electrical safety
- Split-excitation decoupling function, active and remote disconnection of circuit breaker
- Equipped with energy storage power module, higher system stability

Technical Parameters

Type designation	tDriver-EC1.16	tDriver-EC1.18	tDriver-EC1.20	tDriver-EC1.24
Electrical parameter				
System voltage	DC1500V			
Max. number of input channels	16	18	20	24
Max. input current	22A			
Branch fuse rated current	20A/25A/30A/32A/35A			
Circuit breaker rated current	400A/500A/630A			
Application parameters				
Housing material	304 stainless steel / cold rolled steel / galvanized steel			
Input positive and negative cable cross-sectional areas	4/6mm ²			
Output positive and negative cable cross-sectional areas	120-400mm ²			
Dimensions(W*D*H)*	750×200×650mm	780×200×650mm	820×200×650mm	850×200×650mm
Weight*	36kg	39kg	42kg	48kg
Protection degree	IP65			
Operating ambient temperature range	-35°C~60°C			
Allowable relative humidity range	0-95%, non-considering			
Cooling method	Natural cooling			
Power supply	Self-powered			
Operating altitude	3000m (>3000m customized)			
Protection / Detection				
Shunt trip of the circuit breaker	Yes			
Temperature anomaly protection	Yes			
Voltage/Current anomaly protection	Yes			
DC arc/short circuit protection	Optional (coordinated with inverter)			
Hardware fault diagnosis	Optional (coordinated with inverter-MV station and FORESEE O&M system)			
Anti-reverse diode	Optional			
Fuse/circuit breaker breaking capacity	≥20kA			
Dedicated lightning protector	In:20kA, I _{max} :40kA, U _p ≤4kV			
Status detection	Branch circuit current, output voltage, cabinet temperature, circuit breaker and lightning protection status			
Communication interface	RS485			
Communication protocol	Modbus-RTU			

*Note: Actual dimension and weight are subject to delivery.