

## PV Solution - Utility PV Inverter Series

# DP350U-US-10

- Support voltage up to 1500 Vdc and 800 Vac with 99% peak efficiency
- Ensure high compatibility with M10/M12/G12 solar modules
- Optimize yield with 12 MPP trackers, large power MPPT design, and global MPP scanning
- Enable night-time reactive power
- Support Power Line Communication (PLC)
- Support Daytime & Nighttime anti-PID function



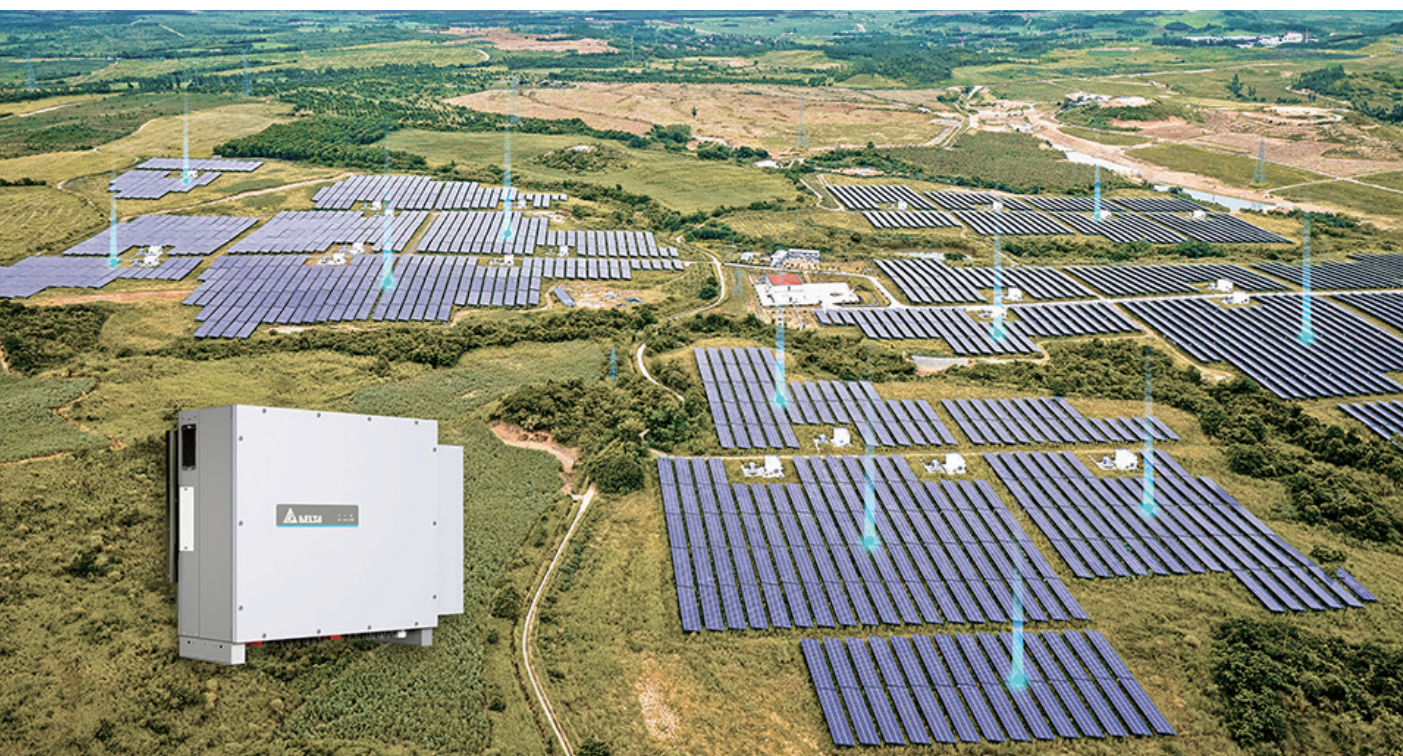
PV Station



# Empowering the Grid with Dependable and Efficient Green Energy

Designed for large-scale ground-mounted solar power plants, Delta's DP350U series solar inverters utilize a 1500 Vdc / 800 Vac voltage system, making them highly compatible with new solar modules. Featuring 12 MPPTs and an overload design, along with the functionality of full-range maximum power tracking, these inverters maximize the power generation efficiency for solar plants. Additionally,

with an outstanding heat dissipation design, they can operate at full power even in high-temperature environments. With a rapid reactive power response time of less than 30 ms, the products assist in grid compensation, optimize power thereby generation performance and grid support capabilities, reducing both construction costs and line losses for large-scale ground-mounted power plants.



## Product at a Glance





## Feature Highlights



### Maximized Power Generation Efficiency

- Support 12 MPPTs
- MPPT large power design
- Support global MPP scanning function



### Advanced Grid Support

- Fast power response time as quick as 140ms
- Fast reactive power response time as quick as 30ms
- Support night-time reactive power compensation



### High Reliability High Durability

- Fuse-free design
- Built-in arc detection function (UL1699B)
- DC input reverse polarity protection



### Easy Operation and Maintenance

- Built-in waveform recorder to improve the efficiency of problem analysis
- Built-in string current monitoring and IV curve scanning functionality
- Support Daytime & Nighttime anti-PID function
- Optional PLC (Power Line Communication)



## Specifications

Part Number	DP350U-US-10
<b>DC Input</b>	
Max. DC Voltage	1500 V
Nominal DC Voltage	1150 V
MPP Voltage Range	500 - 1500 V
Full-load MPPT Voltage Range	850 - 1330 V
MPP Tracker	12
Max. Power	44kW / MPPT
Max. Input Current	40A / MPPT
Max. Short Circuit Current	60A / MPPT
DC Connection Type	24 pairs of H4 Pro Connectors *1
Surge Protection	Type II SPD
DC Switch	Built-in
<b>AC Output</b>	
Nominal Output Power	350 kVA @ 104°F
Max. Output Power	350 kVA
Max. Output Current	253 A
Nominal AC Voltage	AC 800 V, 3Ø3W
Operating AC Voltage	80% to 115% of nominal AC voltage
Operating Frequency Range	50 / 60 Hz
Power Factor (adjustable)	>0.99, 0.8 lead - 0.8 lag
Surge Protection	Type II SPD
T.H.D	< 3 %
AC Connection Type	Terminal Block, Max. 800 kcmil Cu/Al cable
Night Time Consumption	< 8 W *2
<b>Efficiency</b>	
Peak Efficiency	99.0 %
CEC Efficiency	98.8 %
<b>Communication</b>	
Communication Interface	Built-in: RS-485, Bluetooth / Optional: PLC
Display	LED (Grid, Alarm, COMM.) / DeltaSolar APP
<b>Certificate</b>	
Grid Support	UL1741 SB, IEEE1547-2018, IEEE1547.1-2020, CSA C22.2
<b>General Information</b>	
Isolation method	Transformerless
Protection	Arc fault detection, DC reverse polarity detection, leakage current protection, Insulation resistance detection
Features	Daytime & Nighttime Anti-PID, String current monitoring, IV curve scanning, Nighttime reactive power, AC Terminal Temperature Monitoring, Waveform Recorder, Global MPPT Scanning Function
Operating temp. range	-22 ~ +140 °F
Protection level	NEMA 4X
Operating elevation	13123 ft
Allowable relative humidity range	0 ~ 100% non-condensing
Cooling	Smart fan air cooling
Noise	80 dB @1 m
<b>General Information</b>	
Dimension (W x H x D)	47.64×36.42×15.63 inch
Mounting method	Wall bracket
Weight	< 333 lb

\*1 Accessories H4 Pro for field wiring, suitable size : 4 / 6 / 10(optional) mm<sup>2</sup> copper conductor

\*2 Nighttime consumption with standby communication. (Rated output voltage 800Vac)

Specifications are subject to change without prior notice.