



## Final Product/Process Change Notification

Document #:FPCN24273X

Issue Date:27 Oct 2021

<b>Title of Change:</b>	PIM Q1 plastic case design change for Delta 30KW Q1Boost (NXH40B120MNQ1SNG)	
<b>Proposed First Ship date:</b>	03 Feb 2022 or earlier if approved by customer	
<b>Contact Information:</b>	Contact your local onsemi Sales Office or <a href="mailto:Way-Shan.Yong@onsemi.com">Way-Shan.Yong@onsemi.com</a>	
<b>PCN Samples Contact:</b>	Contact your local onsemi Sales Office or < <a href="mailto:PCN.samples@onsemi.com">PCN.samples@onsemi.com</a> >. Sample requests are to be submitted no later than 30 days from the date of first notification, Initial PCN or Final PCN, for this change. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.	
<b>Additional Reliability Data:</b>	N/A	
<b>Type of Notification:</b>	This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 90 days prior to implementation of the change. onsemi will consider this change accepted, unless an inquiry is made in writing within 30 days of delivery of this notice. To do so, contact <a href="mailto:PCN.Support@onsemi.com">PCN.Support@onsemi.com</a>	
<b>Marking of Parts/ Traceability of Change:</b>	No change	
<b>Change Category:</b>	Assembly Change	
<b>Change Sub-Category(s):</b>	Material Change	
<b>Sites Affected:</b>		
<b>onsemi Sites</b>	<b>External Foundry/Subcon Sites</b>	
onsemi Shenzhen, China	None	
<b>Description and Purpose:</b>		
This FPCN announces the change of Q1Boost NXH40B120MNQ1SNG plastic case design to improve plastic case robustness.		
Upon the expiration of this PCN, modules will be produced with new plastic case materials. These products will be qualified to industrial requirements.		
	<b>Before Change</b>	<b>After Change</b>
Material to be changed	<b>Description</b>	<b>Description</b>
Module plastic case	plastic case N14519H001	New plastic case
There is no product marking change as a result of this change		



## Final Product/Process Change Notification

Document #:FPCN24273X

Issue Date:27 Oct 2021

### Reliability Data Summary:

**QV DEVICE NAME:** NXH40B120MNQ1SNG (Full SiC Solar, Power Integrated Module)

**PACKAGE:** Q1Boost

**RMS:** S79500

Test	Specification	Condition	Interval	Result
LTSL	AQG324	Ta = -40 °C	504 hrs	0/33
TC	JESD22-A104	Ta = -40°C to +125°C	100 cyc	0/33

### Electrical Characteristics Summary:

Electrical characteristics are not impacted.

### List of Affected Parts:

**Note:** Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the [\*\*PCN Customized Portal\*\*](#).

Part Number	Qualification Vehicle
NXH40B120MNQ1SNG	NXH40B120MNQ1SNG